



Open Source Used In Session Management Function Software 2023.04.0.i152

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1.1120 miekg-dns 1.1.9

1.1120.1 Available under license

1.1 libjpeg 6b

1.1.1 Notifications :

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1.1.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION

ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal

documentation:

libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

=====

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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REFERENCES

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We

highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The

JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images,

Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from [ftp.sgi.com](ftp://ftp.sgi.com) or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is [ftp.uu.net](ftp://ftp.uu.net) (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/graphics/jpeg/). This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,
notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.

(For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether

SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.2 resourcelocator 1.0.1

1.2.1 Available under license :

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jar/net/miginfocom/layout/LayoutUtil.java
* /opt/cola/permits/117692136_1695289078.9935892/0/miglayout-3-5-5-sources-
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jar/net/miginfocom/layout/ResizeConstraint.java
* /opt/cola/permits/117692136_1695289078.9935892/0/miglayout-3-5-5-sources-

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jar/net/miginfocom/demo/SwtDemo.java
* /opt/cola/permits/117692136_1695289078.9935892/0/miglayout-3-5-5-sources-
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* /opt/cola/permits/117692136_1695289078.9935892/0/miglayout-3-5-5-sources-
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jar/net/miginfocom/layout/ContainerWrapper.java
* /opt/cola/permits/117692136_1695289078.9935892/0/miglayout-3-5-5-sources-
jar/net/miginfocom/layout/AC.java
*
/opt/cola/permits/117692136_1695289078.9935892/0/miglayout-3-5-5-sources-
jar/net/miginfocom/layout/PlatformDefaults.java
* /opt/cola/permits/117692136_1695289078.9935892/0/miglayout-3-5-5-sources-
jar/net/miginfocom/layout/IDEUtil.java
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*

* @version 1.0

* @author Mikael Grev, MiG InfoCom AB

* Date: 2006-sep-08

*/

/** Returns the absolute positioning of one or more of the edges. This will be applied last in the layout cycle and will not

- * affect the flow or grid positions. The positioning is relative to the parent and can not (as padding) be used
- * to adjust the edges relative to the old value. May be `null` and elements may be `null`.
- * `null` value(s) for the x2 and y2 will be interpreted as to keep the preferred size and thus the x1 and x2 will just absolutely position the component.

* `<p>`

* Note that { `@link #setBoundsInGrid(boolean)` } changes the interpretation of this property slightly.

* `<p>`

* For a more thorough explanation of what this constraint does see the white paper or cheat Sheet at www.migcomponents.com.

* @return The current value as a new array, free to modify.

*/

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*
* @version 1.0
* @author Mikael Grev, MiG InfoCom AB
*   Date: 2006-sep-08
*/

/** Returns the gaps as pixel values.
* @param parent The parent. Used to get the pixel values.
* @param defGap The default gap to use if there is no gap set on this object (i.e. it is null).
* @param
refSize The reference size used to get the pixel sizes.
* @param before IF it is the gap before rather than the gap after to return.
* @return The [min,preferred,max] sizes for the specified gap. Uses { @link
net.miginfocom.layout.LayoutUtil#NOT_SET }
* for gap sizes that are <code>null</code>. Returns <code>null</code> if there was no gap specified. A new and
free to use array.
*/

```

Found in path(s):

* /opt/cola/permits/117692136_1695289078.9935892/0/miglayout-3-5-5-sources-jar/net/miginfocom/layout/DimConstraint.java

1.6 commons-collections 3.2.2

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jar/org/intellij/lang/annotations/Identifier.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
jar/org/intellij/lang/annotations/Pattern.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
jar/org/intellij/lang/annotations/Language.java
*

/opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
jar/org/intellij/lang/annotations/PrintFormat.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
jar/org/intellij/lang/annotations/RegExp.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
jar/org/intellij/lang/annotations/Subst.java

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jar/org/jetbrains/annotations/Contract.java

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jar/org/intellij/lang/annotations/Flow.java

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jar/org/jetbrains/annotations/Nullable.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-

jar/org/jetbrains/annotations/NonNls.java

*

/opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-

jar/org/jetbrains/annotations/PropertyKey.java

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* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/JdkConstants.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/NotNull.java

*

/opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/MagicConstant.java

1.14 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

1.15 jaxb-core 2.3.0

1.16 failureaccess 1.0.1

1.17 hk2-utils 2.5.0

1.18 hk2-locator 2.5.0

1.19 jersey-common 2.28

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zip/com/zaxxer/hikari/pool/HikariPool.java  
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java  
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zip/com/zaxxer/hikari/HikariJNDIFactory.java  
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
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zip/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java

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zip/com/zaxxer/hikari/pool/PoolBase.java

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zip/com/zaxxer/hikari/metrics/prometheus/HikariCPCollector.java

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zip/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
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/opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/UtilityElf.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/PropertyElf.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/HikariDataSource.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/HikariPoolMXBean.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/HikariConfigMXBean.java
```

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*/
```

Found in path(s):

```
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/HikariConfig.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/FastList.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/ProxyLeakTask.java
*
/opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/ProxyResultSet.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
```


zip/com/zaxxer/hikari/pool/ProxyConnection.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/DriverDataSource.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/ProxyFactory.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/ConcurrentBag.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/SuspendResumeLock.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/JavassistProxyFactory.java

1.28 javax-ws-rs-api 2.1.1

1.29 bzip2 1.0.8

1.30 spf13-pflag 1.0.3

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1.31 fonts-dejavu 2.37-1

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\$Id\$

1.32 jaxb-api 2.3.1

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1.34 jopt-simple 5.0.4

1.35 saaj 1.3

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1.38 afero 1.1.2

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1.43 ghodss-yaml 1.0.0

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1.46 go-humanize 1.0.0

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1.47 bean-validation-api 2.0.1.Final

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1.48 libsmi 0.4.8

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.

Version: 1.1.2

Entered-date: 23MAR97

Description: C-functions for parsing command line options, both
 traditional one-character options, and GNU'ish
 --long-options.

Keywords: programming, library, lib, commandline, options

Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)

Primary-site: <http://www.ifi.uio.no/~sverrehu/pub-unix/>

Alternate-site: [sunsite.unc.edu /pub/Linux/libs](http://sunsite.unc.edu/pub/Linux/libs)

shhopt-1.1.2.tar.gz

Platforms: Requires ANSI C-compiler.

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1.49 net-tools 1.60+git20180626.aebd88e-1ubuntu1

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1.50 xdg-user-dirs 0.17-2ubuntu1

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1.51 coreutils 8.30-3ubuntu2

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src/flopen.c

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man/strncpy.3bsd
man/strtonum.3bsd
src/arc4random.c
src/arc4random_linux.h
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
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src/hash/md5.c

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1.57 linux-atm 2.5.1-4

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/*

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*

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  <head>
    <meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />
    <title>SLF4J License</title>
    <link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
  </head>
  <body>
    <script type="text/javascript">prefix="";</script>

    <script src="templates/header.js" type="text/javascript"></script>
    <div id="left">
      <script src="templates/left.js" type="text/javascript"></script>
    </div>
    <div id="right">
      <script src="templates/right.js" type="text/javascript"></script>
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audio-channel-front-center

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audio-channel-side-left

audio-channel-side-right

audio-test-signal

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1.67 giflib 5.2.1

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1.68 gpm 1.20.7-5

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1.69 zap 1.13.0

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1.70 gorilla 1.7.3

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1.71 kr-fs 0.1.0

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1.72 pkg-sftp 1.10.1

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1.73 libxrender 0.9.10-1

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1.74 libxtst 1.2.3-1

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1.75 python-certifi 2019.11.28

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.76 jboss-logging 3.4.1.Final

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1.80 flowrate 0.0.0-20140419014527-cca7078d478f

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1.81 pyasn1-modules 0.2.8

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1.82 slf4j 1.7.30

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1.83 iconv 2.31

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the

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END OF TERMS AND CONDITIONS

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Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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1.87 netcat-openbsd 1.206-1ubuntu1

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```
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No license file was found, but licenses were detected in source scan.

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1.88 audit 2.8.5-2ubuntu6

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1.91 iputils 20190709-3

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1.92 libedit 3.1-20191231-1

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1.95 mawk 1.3.4.20200120-2

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1.96 libcanberra 0.30-7ubuntu1

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1.97 libogg 1.3.4-0ubuntu1

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From: Silvia Pfeiffer <silviapfeiffer1@gmail.com>
Date: Sun, 14 Aug 2011 15:47:09 +1000
Message-ID: <CAHp8n2nmGN+G09aA118KN86NeX9yw_VJAQNFZebm74k195zz+Q@mail.gmail.com>
Subject: Re: Distributing the libogg RFCs in the Debian package
To: Ron <ron@debian.org>
Cc: Christopher Montgomery <monty@xiph.org>,
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Version 3, 29 June 2007

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1.100 libxcb 1.14-2

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1.101 libsemanage-common 3.0-1build2

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1.102 libpng 1.6.37-2

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```
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```

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1.105 vixie-cron 3.0pl1-136ubuntu1

1.105.1 Available under license :

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*/
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
*
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
```

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.\"
.\" @(#)bitstring.3 5.1
.\" (Berkeley) 12/13/89
.\"
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/bitstring.3
```

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```
/*
```

```
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*
*/
```

Found in path(s):

* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/popen.c

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.\/* I'll try to keep a version up to date. I can be reached as follows:
.\/* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
.\*/
.\"
.\$Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

*

/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.1

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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

Found in path(s):

* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/compat.h

* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/pathnames.h

*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
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.\" * I'll try to keep a version up to date. I can be reached as follows:
.\" * Paul Vixie    <paul@vix.com>    uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

Found in path(s):

*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8
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*/

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $
```


Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the

command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r` command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER` is given; `-u` only works for root. When using most `su` commands under most BSD's, `crontab` will still think of you as yourself even though you may think of yourself as root -- so use `-u` liberally. (3) the `-r` option stands for `replace`; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux` and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/INSTALL
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```

```
/*
```

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*
```

```
* @(#)bitstring.h 5.2
(Berkeley) 4/4/90
*/
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/bitstring.h
```

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```

Found in path(s):

```
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```

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# *
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```
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```

```
# * get me blamed for your possible bugs), don't alter or remove this
```

```
# * notice. May be sold if buildable source is provided to buyer. No
```

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```

```
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```

```
# * user.
```

```
# *
```

```
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
```

```
# * I'll try to keep a version up to date. I can be reached as follows:
```

```
# * Paul Vixie <Paul@vix.com> uunet!decwrl!vixie!paul
```

```
# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into

ranges with steps -- basically, this step is as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

Found in path(s):

* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/README

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.\" *
.\" * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
.\" * I'll try to keep a version up to date. I can be reached as follows:
.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"
```

Found in path(s):

*

/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.5

1.106 rcrowley-go-metrics 0.0.0-20190706150252-9beb055b7962

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1.107 wheel 0.34.2

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1.108 go-grpc-prometheus 1.2.0

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1.109 quartz 2.3.2

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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(By Douglas Crockford <douglas@crockford.com>)

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compiler/cpp/src/platform.h
compiler/cpp/src/thrift.ll
compiler/cpp/src/thrift.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
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lib/csharp/src/Protocol/TProtocolFactory.cs
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Go support for Protocol Buffers - Google's data interchange format

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1.112 commons-lang3 3.8.1

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1.113 gods 1.12.0

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Source: <https://github.com/emirpasic/gods>

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Files-Excluded:

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Files:

*

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1.116 uitable 0.0.4

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1.117 xiang90-probing 0.0.0-20190116061207-43a291ad63a2

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1.118 go-humanize 0.0.0-20171111073723-bb3d318650d4

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1.119 gorilla 1.4.2

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1.120 gopsutil 2.20.5+incompatible

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1.121 libpsl 0.21.0-1ubuntu1

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psl-make-dafsa and lookup_string_in_fixed_set.c.

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1.122 libtool 2.4.6-14

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1.124 xorg 7.7+19ubuntu14

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Source Package: xorg

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1.129 leveldb 0.12

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 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/LookupKey.java
```

* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/MMapLogWriter.java
*
/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/FileMetaData.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/VariableLengthQuantity.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/LogWriter.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/AbstractSeekingIterator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/LogMonitors.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/LogMonitor.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/LookupResult.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/DbConstants.java
*
/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/Filename.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/FileChannelLogWriter.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/Level.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/UserComparator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/LogReader.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/PureJavaCrc32C.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/SeekingIteratorAdapter.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/Level0Iterator.java
*
/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/LevelIterator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/ValueType.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/Slice.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/SnapshotImpl.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/Iq80DBFactory.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-

jar/org/iq80/leveldb/impl/InternalUserComparator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/WriteBatchImpl.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/SnapshotSeekingIterator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/LogConstants.java
*
/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/DynamicSliceOutput.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/VersionEditTag.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/VersionEdit.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/Slices.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/Snappy.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/SeekingIterable.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/DbLock.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/LogChunkType.java
*
/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/DbImpl.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/Finalizer.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/ByteBufferSupport.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/table/BlockBuilder.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/InternalKey.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/table/BlockEntry.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/table/FileChannelTable.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/Level0.java
*
/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/MemTable.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/SizeOf.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/SliceComparator.java

* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/BlockIterator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/ReadStats.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/Closeables.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/MMapTable.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/Footer.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/BasicSliceOutput.java
*
/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/FileUtils.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/BlockTrailer.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/TableBuilder.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/SequenceNumber.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/DbIterator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/TableIterator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/InternalKeyComparator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/TableCache.java
*
/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/CustomUserComparator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/Table.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/BlockHandle.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/IntVector.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/Compaction.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/InternalIterator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/InternalTableIterator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/Logs.java
*

/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/SliceInput.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/SliceOutput.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/VersionSet.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/Block.java
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* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/SeekingIterator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/Version.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/BytewiseComparator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/InternalEntry.java

1.130 activation 1.1.1

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1.131 adduser 3.118ubuntu2

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1.133 debianutils 4.9.1

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libraries. However, the Lesser license provides advantages in certain special circumstances.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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That's all there is to it!

1.136 sed 4.7-1

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The

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1.137 libffi 3.3-4

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1.138 base-passwd 3.5.47

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.140 cracklib 2.9.6-3.2

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan

wrote:

> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,

> it was enough to just get it consistent and documented as to what it was

> released under. This wasn't actually a license change, just a

> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.
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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
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> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional

code, so whatever licensing y'all come up with is fine

>> by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be

> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro

>>> maintainers to get together with Alec in a conversation and come to a

>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.
>>
>> I am sympathetic. Guys, what do you reckon?
>>
>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

>>> In any case, I thank you both for working on sorting this out.

>>

>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
>> make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from

[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.141 go-md2man 2.0.0

1.141.1 Available under license :

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1.142 less 551-1ubuntu0.1

1.142.1 Available under license :

Less License

Less

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Version 3, 29 June 2007

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1.143 apr 1.6.5-1ubuntu1

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From strings/apr_strnatcmp.c,
include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From
strings/apr_snprintf.c:

- *
- * cvt - IEEE floating point formatting routines.
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1.144 lua 5.2.4-1.1build3

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* /opt/cola/permits/1083152210_1609273724.93/0/lu-a-5-4-2-1-tar-gz/lu-a-5.4.2/doc/contents.html

1.145 libxi 1.7.10-Ubuntu1

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1.146 cdebconf 0.251ubuntu1

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1.147 tcl 8.6.10+dfsg-1

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1.150 bouncycastle-fips 1.0.3

1.150.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-
jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java
```

1.151 jctools-core 3.1.0

1.151.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<artifactId>jctools-core</artifactId>
```

```
<groupId>org.jctools</groupId>
```

```
<version>3.1.0</version>
```

```
<name>Java Concurrency Tools Core Library</name>
```

```
<description>Java Concurrency Tools Core Library</description>
```

```
<packaging>bundle</packaging>
```

```
<dependencies>
```

```
<dependency>
```

```
<groupId>org.hamcrest</groupId>
```

```
<artifactId>hamcrest-all</artifactId>
```

```
<version>${hamcrest.version}</version>
```

```
<scope>test</scope>
```

```
</dependency>
```

```
<dependency>
```

```
<groupId>junit</groupId>
```

```

<artifactId>junit</artifactId>
<version>${junit.version}</version>
<scope>test</scope>
</dependency>

<dependency>
<groupId>com.google.guava</groupId>
<artifactId>guava-testlib</artifactId>
<version>${guava-testlib.version}</version>
<scope>test</scope>
</dependency>
</dependencies>
<build>
<plugins>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-surefire-plugin</artifactId>
<version>3.0.0-M3</version>
<configuration>
<includes>
<include>*</include>
</includes>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.felix</groupId>
<artifactId>maven-bundle-plugin</artifactId>
<version>4.2.1</version>
<extensions>>true</extensions>
<configuration>
<instructions>
<Import-Package>sun.misc;resolution:=optional</Import-Package>
</instructions>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-source-plugin</artifactId>
<version>3.2.0</version>
<executions>
<execution>
<id>attach-sources</id>
<phase>verify</phase>
<goals>
<goal>jar-no-fork</goal>
</goals>
</execution>
</executions>

```

```

</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
    <additionalOptions>
      <additionalOption>-Xdoclint:none</additionalOption>
    </additionalOptions>
    <source>8</source>
  </configuration>
  <executions>
    <execution>
      <id>attach-javadocs</id>
      <goals>
        <goal>jar</goal>
      </goals>
    </execution>
  </executions>
</plugin>
</plugins>
</build>

<distributionManagement>
  <repository>
    <id>bintray-jctools-jctools</id>
    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
  </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
  <license>
    <name>Apache
    License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>

<scm>
  <url>https://github.com/JCTools/JCTools</url>
  <connection>scm:git:https://github.com/JCTools/JCTools</connection>
  <tag>HEAD</tag>
</scm>

```

```
<developers>
  <developer>
    <url>https://github.com/nitsanw</url>
  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
    <url>https://github.com/kay</url>
  </developer>
  <developer>
    <url>https://github.com/franz1981</url>
  </developer>
</developers>

<prerequisites>
  <maven>3.5.0</maven>
</prerequisites>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
```

Found

in path(s):

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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- */

Found in path(s):

- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Ordering.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpMCAtomicArrayQueue.java
- *
- /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpMCAtomicArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedListQueueAtomicNode.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpSCLinkedListQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpSCUnboundedXaddArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Preference.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpSCAtomicArrayQueue.java
- *
- /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SupportsIterator.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpMCUnboundedXaddArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpSCGrowArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseSpSCLinkedListAtomicArrayQueue.java
- * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/AtomicQueueFactory.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpMCArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/AbstractEntry.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscChunkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashMapLong.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeLongArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashMap.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingIdentityHashMap.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/InternalAPI.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashSet.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/Pow2.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/ConcurrentQueueSpec.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-

jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/ConcurrentAutoTable.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/LinkedQueueNode.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCUnboundedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/PortableJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingSetInt.java
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/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeRefArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscCompoundQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
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/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/QueueFactory.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscUnboundedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/IndexedQueueSizeUtil.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpSCGrowArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/RangeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseSpSCLinkedArrayQueue.java

1.152 commons-lang3 3.1

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1.156 logrus 1.7.0

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1.159 httpcomponents-client 4.5.13

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1.165 idna 2.8

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Found in path(s):

```
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/LICENSE.rst
```

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```
"""
```

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```
"""
```

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
```

```
    if python_version < (2,7):
```

```
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = { }
```

```
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
```

```
        'name': 'idna',
```

```
        'packages': ['idna'],
```

```
        'version': package_data['__version__'],
```

```
        'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
        'author': 'Kim Davies',
```

```
        'author_email': 'kim@cynosure.com.au',
```

```
        'license': 'BSD-like',
```

```
        'url': 'https://github.com/kjd/idna',
```

```
        'classifiers': [
```

```
            'Development Status :: 5 - Production/Stable',
```

```
            'Intended Audience :: Developers',
```

```
            'Intended Audience :: System Administrators',
```

```
            'License :: OSI Approved :: BSD License',
```

```
            'Operating System :: OS Independent',
```

```
            'Programming Language :: Python',
```

```
            'Programming Language :: Python :: 2',
```

```
            'Programming Language :: Python :: 2.7',
```

```
            'Programming Language :: Python :: 3',
```

```
            'Programming Language :: Python :: 3.4',
```

```
            'Programming Language :: Python :: 3.5',
```



```

    'Programming Language :: Python :: 3.6',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

```

1.166 appdirs 1.4.3

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1.167 pyparsing 2.4.6

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1.168 pyasn1 0.4.8

1.168.1 Available under license :

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Metadata-Version: 1.2

Name: pyasn1

Version: 0.4.8

Summary: ASN.1 types and codecs

Home-page: <https://github.com/etingof/pyasn1>

Author: Ilya Etingof

Author-email: etingof@gmail.com

Maintainer: Ilya Etingof <etingof@gmail.com>

License: BSD

Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Education

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators

Classifier: Intended Audience :: Telecommunications Industry

Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier:
Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/PKG-INFO
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO
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Found in path(s):

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_constraint.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedval.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/constraint.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/base.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_namedval.py

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_opentype.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/base.py
 *
 /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/debug.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/__main__.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/__main__.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_integer.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/error.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/__main__.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_char.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/setup.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/decoder.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_tag.py
 *
 /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/__main__.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_binary.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedtype.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/useful.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_useful.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/__main__.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/string.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_decoder.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/univ.py
 *
 /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_octets.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/eoo.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/test_encoder.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/calling.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_decoder.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/decoder.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/encoder.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/encoder.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_univ.py
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 /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_encoder.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/test_decoder.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tag.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/error.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/char.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/test_decoder.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/binary.py
 * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/opentype.py

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/octets.py
*
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs

as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

*

Generic implementation of ASN.1 types (X.208)

* Standards compliant BER/CER/DER codecs

* Dumps/loads ASN.1 structures from Python types

* 100% Python, works with Python 2.4 up to Python 3.7

* MT-safe

* Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)

by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```

```bash
Record ::= SEQUENCE {
 id INTEGER,
 room [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

```

Could be expressed in pyasn1 like this:

```

```python
class Record(Sequence):
 componentType = NamedTypes(
 NamedType('id', Integer()),
 OptionalNamedType(
 'room', Integer().subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
)
),
 DefaultedNamedType(
 'house',
 Integer(0).subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
)
)
)
```

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>> print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':

```



```
123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
'''
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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```

.. \_license:

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=====

```
.. include:: ../../LICENSE.rst
```

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ASN.1 library for Python

```
=====
```

```
.. toctree::
```

```
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```

Abstract Syntax Notation One (ASN.1

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

```

```

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting [discussions](https://news.ycombinator.com/item?id=8871453) <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/> or `FlatBuffers` <https://google.github.io/flatbuffers/>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

#### ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

#### ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

#### Documentation

-----

.. toctree::

:maxdepth: 2

/pyasn1/contents

Use case

-----

.. toctree::

:maxdepth: 2

/example-use-case

Download & Install

-----

.. toctree::

:maxdepth: 2

/download

Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

..

toctree::

:maxdepth: 1

/changelog

License

-----

The PyASN1 software is distributed under 2-clause BSD License.

.. toctree::

:maxdepth: 2

/license

Getting help

-----

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_` and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_` at GitHub.

Alternatively, you could ask for help at

``Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_`

or search

``pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_`

mailing list archive.

Books on ASN.1

-----

The pyasn1 implementation is largely based on reading up the following awesome books:

\* ``ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_` by Olivier Dubuisson

\* ``ASN.1 Complete <http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>`_` by Prof John Larmouth

Here you can get the official standards which is hard to read:

\* ``ITU standards`

`<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>`_`

On the other end of the readability spectrum, here is a quick and sweet write up:

\* ``A Layman's Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`_` by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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\* `/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst`

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## 1.172 jackson-xc 2.9.8

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*/
```

```
$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $
```

Read the comments at the top of the Makefile, then edit the area marked 'configurable'

stuff.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by

Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows \_PATH\_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:

```
make all
```

su and say:

```
make install
```

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have



no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/INSTALL
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*/
```

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```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/entry.c
```

\*  
/opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c  
\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h  
\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c  
\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c  
\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c  
\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h  
\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c  
\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c  
\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c  
\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/do\_command.c  
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\*  
\* @(#)bitstring.h 5.2  
(Berkeley) 4/4/90  
\*/

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\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.h

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.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"
```

Found in path(s):

\*

/opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.5

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.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

\*

```
/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.1
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.\" @(#)bitstring.3 5.1
.\" (Berkeley) 12/13/89
.\"
```

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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

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*/
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into

ranges with steps -- basically, this step is

as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

Found in path(s):

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README  
No license file was found, but licenses were detected in source scan.

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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

Found in path(s):

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.h  
\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h  
\*  
/opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/externs.h  
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Found in path(s):

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/Makefile

## 1.176 attr 2.4.48-5

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Version 2.1, February 1999

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## 1.177 diffutils 3.7-3

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\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Request.java  
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/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2.java  
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jar/okhttp3/internal/connection/StreamAllocation.java
 * /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/cache/FaultHidingSink.java
 *
 /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Authenticator.java
 * /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/CookieJar.java
 * /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/connection/ConnectionSpecSelector.java
 * /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/connection/RouteException.java
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\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/annotations/EverythingIsNonNull.java

\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/proxy/NullProxySelector.java

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\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/Android10Platform.java

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\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/ConnectionShutdownException.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/WebSocket.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/Jdk9Platform.java  
\*  
/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/RealWebSocket.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/CallServerInterceptor.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/UnrepeatableRequestBody.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/WebSocketListener.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache2/FileOperator.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache2/Relay.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/AndroidPlatform.java  
\*  
/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/TrustRootIndex.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/RetryAndFollowUpInterceptor.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/StreamResetException.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/BasicTrustRootIndex.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/BasicCertificateChainCleaner.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/RealInterceptorChain.java  
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\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/DiskLruCache.java

\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2Writer.java

\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2Connection.java

\*

/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2Stream.java

\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpDate.java

\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2Reader.java

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\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2Codec.java

\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/Util.java

\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpCodec.java

\*

/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpHeaders.java

\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Address.java

\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http1/Http1Codec.java

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```
*/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/http2/Huffman.java
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```
*/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/http/BridgeInterceptor.java
```

```
*/
```

```
/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/tls/DistinguishedNameParser.java
```

```
*/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/tls/CertificateChainCleaner.java
```

```
*/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/connection/ConnectInterceptor.java
```



```
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/connection/RealConnection.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/tls/OkHostnameVerifier.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Connection.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/ConnectionPool.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/platform/OptionalMethod.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/cache/CacheInterceptor.java
*
/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Headers.java
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```
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Interceptor.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/ConnectionSpec.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/ws/WebSocketReader.java
*
/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/CertificatePinner.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/ws/WebSocketWriter.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/ws/WebSocketProtocol.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Callback.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Call.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Protocol.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Credentials.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/FormBody.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Challenge.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/ResponseBody.java
```

\*  
/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Header.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/RealResponseBody.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/TlsVersion.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/CacheRequest.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/PushObserver.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/RequestBody.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/CipherSuite.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/Version.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/ConscryptPlatform.java  
\*  
/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/MultipartBody.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/Internal.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/RealCall.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpMethod.java  
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\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Dns.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/RouteSelector.java  
\*  
/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/OkHttpClient.java

## 1.183 expect 5.45.4-2build1

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## 1.185 libmaxminddb 1.4.2-0ubuntu1.20.04.1

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# 1.186 libxcrypt 4.4.10-10ubuntu4

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## 1.188 jinja2 2.10.1-2

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\* /opt/cola/permits/1128978950\_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/markupsafe/\_native.py

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Metadata-Version: 1.2

Name: MarkupSafe

Version: 1.1.0

Summary: Safely add untrusted strings to HTML/XML markup.

Home-page: <https://www.palletsprojects.com/p/markupsafe/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets Team

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

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Project-URL: Documentation, <https://markupsafe.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/markupsafe>

Project-URL: Issue tracker, <https://github.com/pallets/markupsafe/issues>

Description: MarkupSafe

=====

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

## Installing

-----

Install and update using `pip`\_:

.. code-block:: text

```
pip install -U MarkupSafe
```

.. \_pip: <https://pip.pypa.io/en/stable/quickstart/>

## Examples

-----

.. code-block:: pycon

```
>>> from markupsafe import Markup, escape
>>> # escape replaces special characters and wraps in Markup
>>> escape('<script>alert(document.cookie);</script>')
Markup(u'<script>alert(document.cookie);</script>')
>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup('Hello')
Markup('hello')
>>> escape(Markup('Hello'))
Markup('hello')
>>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
>>> # methods and operators escape
```

their arguments

```
>>> template = Markup("Hello %s")
>>> template % "World"
Markup('Hello "World"')
```

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-----

The Pallets organization develops and supports MarkupSafe and other libraries that use it. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`\_.

.. \_please donate today: <https://psfmember.org/civicrm/contribute/transact?reset=1&id=20>

## Links

-----

- \* Website: <https://www.palletsprojects.com/p/markupsafe/>
- \* Documentation: <https://markupsafe.palletsprojects.com/>
- \* License: `BSD <<https://github.com/pallets/markupsafe/blob/master/LICENSE.rst>>`\_
- \* Releases: <https://pypi.org/project/MarkupSafe/>
- \* Code: <https://github.com/pallets/markupsafe>
- \*

Issue tracker: <https://github.com/pallets/markupsafe/issues>

- \* Test status:
  - \* Linux, Mac: <https://travis-ci.org/pallets/markupsafe>
  - \* Windows: <https://ci.appveyor.com/project/pallets/markupsafe>
- \* Test coverage: <https://codecov.io/gh/pallets/markupsafe>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Topic :: Internet

:: WWW/HTTP :: Dynamic Content

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Text Processing :: Markup :: HTML

Requires-Python: >=2.7,! =3.0.\*,! =3.1.\*,! =3.2.\*,! =3.3.\*

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/\*\*

\* markupsafe.\_speedups

\* ~~~~~

\*

\* C implementation of escaping for better performance. Used instead of  
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\*

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# 1.190 init-system-helpers 1.57

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Files: debian/\*

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Files: script/invoke-rc.d man8/invoke-rc.d.rst

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## 1.191 httpcomponents-core 4.4.13

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# 1.193 commons-logging 1.2

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Found in path(s):

```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/LogFactory.java
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```

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```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/AvalonLogger.java
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```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/WeakHashtable.java
```

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Found in path(s):

```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/package.html
```

```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/package.html
```

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- \* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogConfigurationException.java
- \* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JLogger.java
- \* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java
- \*
- /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
- \* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java
- \* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14Logger.java
- \* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogSource.java
- \* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/NoOpLog.java
- \* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java
- \* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/Log.java

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\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/ServletContextCleaner.java

## 1.194 bcel 2.7.2

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/\*\*

\* This is a special exception that is used to stop parsing when

\* search for an element. For instance, when searching

for xml:stylesheet

\* PIs, it is used to stop the parse once the document element is found.

\* @see StylesheetPIHandler

\* @xsl.usage internal

\*/

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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java

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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/transformer/QueuedEvents.java  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/XslAttribute.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/dtm/ref/NodeLocator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/runtime/MessageHandler.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/dom/KeyIndex.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/templates/ElemForEach.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/patterns/ContextMatchStepPattern.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/res/XPATHErrorResources\_zh.java  
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/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/functions/FuncBoolean.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/CurrentCall.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/When.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-



jar/org/apache/xml/serializer/SecuritySupport.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/dom/MatchingIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/functions/FuncNot.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/processor/XSLTAttributeDef.java  
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 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/utils/StringToStringTableVector.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/If.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/dom/ObjectFactory.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/SerializerTraceWriter.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Lt.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/PrefixResolver.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/res/XSLTErrorResources\_en.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/ToTextSAXHandler.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/utils/res/StringArrayWrapper.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/Choose.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/templates/ElemFallback.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/transformer/XalanProperties.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/transformer/KeyIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/DOM2Helper.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/runtime/Hashtable.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/dom/UnionIterator.java  
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 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/dom/NthIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/Stylesheet.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/res/XSLTErrorResources\_sk.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/XSLTC.java



\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_pt\_BR.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLMessages.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeProxy.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StartsWithCall.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ElemContext.java  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathProcessorException.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeCounterGenerator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_zh\_TW.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources\_he.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncRound.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MethodGenerator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IntExpr.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Fallback.java  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_ja.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/DOMOrder.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LangCall.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionsTable.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Minus.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/CharArrayWrapper.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CastExpr.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_pl.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionNamespaceSupport.java  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectFactory.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/TransletException.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xml/utils/StringBufferPool.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/And.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/ToSAXHandler.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/res/XPATHErrorResources\_ca.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/res/XSLTErrorResources\_pl.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/utils/SerializerMessages\_zh\_TW.java  
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 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/utils/SerializerMessages.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/templates/AVTPartXPath.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/ExtendedLexicalHandler.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitable.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/templates/WhiteSpaceInfo.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/trace/EndSelectionEvent.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/functions/FuncLang.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/trax/DOM2SAX.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/utils/res/XResources\_ka.java  
 \*  
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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/NodeIterator.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/DecimalFormatting.java

\*

/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitor.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_ko.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanTransformState.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemVariablePseudo.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprIterator.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_es.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_hu.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_ru.java

\*

/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages\_pl.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/Expression.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/TransformStateSetter.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathEvaluatorImpl.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionCall.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/RTFIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeListBase.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/LocPathIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_pt\_BR.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorInclude.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectPool.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Message.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNamedNodeMap.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/ObjectFactory.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLString.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionDecl.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/WrappedRuntimeException.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources\_de.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHMessages.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_ca.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/SecuritySupport.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LocalNameCall.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/SecuritySupport.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/BoolStack.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/FoundIndex.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMStringListImpl.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_it.java



\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncExtElementAvailable.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ArgumentList.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/DTMXRTreeFrag.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AncestorPattern.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/EqualityExpr.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_en.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/ChildTestIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ForEach.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_de.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringComparable.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Expression.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/XSLTVisitor.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralExpr.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ApplyImports.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/ConnectionPoolManager.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorAttributeSet.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Quo.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/NSInfo.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionHandlerJavaClass.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMConstants.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/ExpandedNameTable.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/QName.java  
 \*

/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMManager.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/GenerateIdCall.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/QName.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformSnapshot.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Utils/SerializerMessages\_ca.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/QueryParameter.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessageMessages\_es.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorOutputElem.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Param.java  
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/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeValueTemplate.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ObjectFactory.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_ru.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SlotAllocator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Number.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/res/XResources\_el.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerHandlerImpl.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/DOM2TO.java  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/Stylesheet.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/VariableStack.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMWSFilter.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprIteratorSimple.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_zh\_CN.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MultiValuedNodeHeapIterator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_zh\_TW.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemElement.java

```

*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/ConcatCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTErrorResources_de.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/ResultNameSpace.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/ProcessorLRE.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/utils/SerializerMessages_fr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/trax/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/res/XResources_ja_JP_A.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Gt.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/res/XMLErrorResources_fr.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/res/XMLErrorResources_cs.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/DTMConfigurationException.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/ref/DTMNodeList.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/Axis.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/XUnresolvedVariable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncFalse.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_sl.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/AbsoluteIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/CurrentNodeListIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java
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*/
/*
 * $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
 */
package org.apache.xalan;

/**
 * Administrative
 * class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */
public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * <CODE>"Xalan Java v.r[.dd] Dnn]"</CODE>.
 *
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */
public static String getVersion()
{
 return getProduct()+" "+getImplementationLanguage()+" "
 +getMajorVersionNum()+". "+getReleaseVersionNum()+". "

 +(getDevelopmentVersionNum() > 0) ?
 ("D"+getDevelopmentVersionNum()) : (" "+getMaintenanceVersionNum());
}
}

```

```

}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
 System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
 return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
 return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 *
 * may have changed.
 */
public static int getMajorVersionNum()
{
 return @version.VERSION@;
}

/**

```

```

* Release Number.
* Release number. This changes when:
* - a new set of functionality is to be added, eg,
* implementation of a new W3C specification.
* - API or behaviour change.
* - its designated as a reference release.
*/
public static int getReleaseVersionNum()
{
 return @version.RELEASE@;
}

/**
* Maintenance Drop Number.
* Optional identifier used to designate maintenance
* drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility
* with the release and contains no API changes.
* When missing, it designates the final and complete
* development drop for a release.
*/
public static int getMaintenanceVersionNum()
{
 return
@version.MINOR@;
}

/**
* Development Drop Number.
* Optional identifier designates development drop of
* a specific release. D01 is the first development drop
* of a new release.
*
* Development drops are works in progress towards a
* completed, final release. A specific development drop
* may not completely implement all aspects of a new
* feature, which may take several development drops to
* complete. At the point of the final drop for the
* release, the D suffix will be omitted.
*
* Each 'D' drops can contain functional enhancements as
* well as defect fixes. 'D' drops may not be as stable as
* the final releases.
*/
public static int getDevelopmentVersionNum()
{
 try {
 if ((new String("@version.DEVELOPER@")).length() == 0)

```

```

 return 0;
 else
 return Integer.parseInt("@version.DEVELOPER@");
 } catch (NumberFormatException nfe) {
 return 0;
 }
}
}
}

```

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

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\*/

/\*

\* \$Id: Version.src 468654 2006-10-28 07:09:23Z minchau \$

\*/

```
package org.apache.xml.serializer;
```

/\*\*

\* Administrative class to keep track of the version number of

\* the Serializer release.

\* <P>This class implements the upcoming standard of having

\* org.apache.project-name.Version.getVersion() be a standard way

\* to get version information.</P>

\* @xsl.usage general

\*/

```
public final class Version
```

```
{
```

/\*\*

\* Get the basic version string for the current Serializer.

```

* Version String formatted like
* <CODE>"Serializer Java v.r[.dd| Dnm]"</CODE>.
*
* Futurework: have this read version info from jar manifest.
*
* @return String denoting our current version
*/
public static String getVersion()
{
 return getProduct()+" "+getImplementationLanguage()+" "
 +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
 +((getDevelopmentVersionNum() > 0) ?
 ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
* Print the processor version to the command
line.
*
* @param argv command line arguments, unused.
*/
public static void main(String argv[])
{
 System.out.println(getVersion());
}

/**
* Name of product: Serializer.
*/
public static String getProduct()
{
 return "Serializer";
}

/**
* Implementation Language: Java.
*/
public static String getImplementationLanguage()
{
 return "Java";
}

/**
* Major version number.
* Version number. This changes only when there is a
* significant, externally apparent enhancement from
* the previous release. 'n' represents the n'th

```



```

* version.
*
* Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.
*/
public static int getMajorVersionNum()
{
 return @version.VERSION@;
}

/**
* Release Number.
* Release number. This
changes when:
* - a new set of functionality is to be added, eg,
* implementation of a new W3C specification.
* - API or behaviour change.
* - its designated as a reference release.
*/
public static int getReleaseVersionNum()
{
 return @version.RELEASE@;
}

/**
* Maintenance Drop Number.
* Optional identifier used to designate maintenance
* drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility
* with the release and contains no API changes.
* When missing, it designates the final and complete
* development drop for a release.
*/
public static int getMaintenanceVersionNum()
{
 return @version.MINOR@;
}

/**
* Development Drop Number.
* Optional identifier designates development drop of
* a specific release. D01 is the first development
drop
* of a new release.
*
* Development drops are works in progress towards a

```

\* completed, final release. A specific development drop  
\* may not completely implement all aspects of a new  
\* feature, which may take several development drops to  
\* complete. At the point of the final drop for the  
\* release, the D suffix will be omitted.

\*  
\* Each 'D' drops can contain functional enhancements as  
\* well as defect fixes. 'D' drops may not be as stable as  
\* the final releases.

\*/

```
public static int getDevelopmentVersionNum()
{
 try {
 if ((new String("@version.DEVELOPER@")).length() == 0)
 return 0;
 else
 return Integer.parseInt("@version.DEVELOPER@");
 } catch (NumberFormatException nfe) {
 return 0;
 }
}
```

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src

No license file was found, but licenses were detected in source scan.

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\*/

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/XPathLexer.java

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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
// Proprietary
/** The 'document-location()' id (Proprietary). */
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/FunctionTable.java
```

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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent
```

enhancement from

- \* the previous release. 'n' represents the n'th
- \* version.
- \*
- \* Clients should carefully consider the implications
- \* of new versions as external interfaces and behaviour
- \* may have changed.
- \*/

Found in path(s):

- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

No license file was found, but licenses were detected in source scan.

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- \*/

/\*

- \* \$Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas \$
- \*/

/\*

- \* @author Jacek Ambroziak
- \* @author
- Santiago Pericas-Geertsen
- \* @author Morten Jorgensen
- \* @author G. Todd Miller
- \*/

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;

```

import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {
 /**
 * Used by function calls with no args.
 */
 static public final Vector EmptyArgs = new Vector(0);

 /**
 * Reference to non-existing variable.
 */
 static public final VariableRef DummyVarRef = null;

 /**
 * Reference to the Parser class.
 */
 private Parser _parser;
 private XSLTC _xsltc;

 /**
 * String representation of the expression being parsed.
 */
 private String _expression;

 /**
 * Line number where this expression/pattern
was declared.
 */
 private int _lineNumber = 0;

 /**
 * Reference to the symbol table.
 */
 public SymbolTable _symbolTable;

 public XPathParser(Parser parser) {
 _parser = parser;
 _xsltc = parser.getXSLTC();
 _symbolTable = parser.getSymbolTable();
 }
}

```

```

public int getLineNumber() {
 return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
 return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
 return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
 _xslt.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
 _xslt.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
 _xslt.setHasIdCall(flag);
}

/**
 * This
method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
 * patterns are expanded as "[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) { // "*"
 nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

 return new StepPattern(axis, nodeType, predicates);
}
else if (test instanceof Integer) {
nodeType = ((Integer) test).intValue();

```

```

return new StepPattern(axis, nodeType, predicates);
 }
 else {
 QName name = (QName)test;
 boolean setPriority = false;

 if (axis == Axis.NAMESPACE) {
nodeType = (name.toString().equals("*")) ? -1
: _xsltC.registerNamespacePrefix(name);
 }
 else {
final String uri = name.getNamespace();
final String local = name.getLocalPart();
final QName namespace_uri =
 _parser.getQNameIgnoreDefaultNs("namespace-uri");

// Expand {uri}:* to *[namespace-uri = 'uri'] - same for @*
if (uri != null && (local.equals("") || local.equals("@*"))) {
 if (predicates == null) {
predicates = new Vector(2);
 }

// Priority is set by hand if no other predicates exist
setPriority = (predicates.size() == 0);

 predicates.add(
new Predicate(
 new EqualityExpr(Operators.EQ,
new NamespaceUriCall(namespace_uri),
new LiteralExpr(uri)));
 }

if (local.equals(""))
{
 nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
 nodeType = NodeTest.ATTRIBUTE;
}
else {
 nodeType = (axis == Axis.ATTRIBUTE) ? _xsltC.registerAttribute(name)
: _xsltC.registerElement(name);
}
}
}

```

```

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
result.setPriority(-0.25);
}

return result;
}
}

public int findNodeType(int axis, Object test) {
if (test == null) { // *
return (axis == Axis.ATTRIBUTE) ?
NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
}
else if (test instanceof Integer) {
return ((Integer)test).intValue();
}
else {
QName name = (QName)test;

if (axis == Axis.NAMESPACE) {
return (name.toString().equals(""))
? -1
: _xslt.registerNamespacePrefix(name);
}

if (name.getNamespace() == null) {
final String local = name.getLocalPart();

if (local.equals("")) {
return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
return NodeTest.ATTRIBUTE;
}
}

return (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name)
: _xslt.registerElement(name);
}
}

/**
* Parse the expression passed to the current scanner. If this

```



```

* expression contains references to local variables and it will be
* compiled in an external module (not in the main class) request
* the current template to create a new variable stack frame.
*
* @param lineNumber Line where the current expression is defined.
* @param external Set to <tt>true</tt> if this expression is
* compiled in a separate module.
*
*/
public Symbol parse(String expression, int lineNumber) throws Exception {
 try {
 _expression = expression;
 _lineNumber = lineNumber;
 return super.parse();
 }
 catch (IllegalCharException e) {
 ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
 lineNumber, e.getMessage());
 _parser.reportError(Constants.FATAL, err);
 }
 return null;
}

/**
* Lookup a variable or parameter in the symbol table given its name.
*
* @param name Name of the symbol being looked up.
*/
final SyntaxTreeNode lookupName(QName name) {
 // Is it a local var or param ?
 final SyntaxTreeNode result = _parser.lookupVariable(name);
 if (result != null)
 return(result);
 else
 return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
 _parser.reportError(Constants.ERROR,
error);
}

public void report_error(String message, Object info) {
final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
 _expression);
_parser.reportError(Constants.FATAL, err);
}

```

```

public void report_fatal_error(String message, Object info) {
 // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
if (rlp instanceof Step) {
 return new ParentLocationPath(step, (Step) rlp);
}
else if (rlp instanceof ParentLocationPath) {
 final ParentLocationPath plp = (ParentLocationPath) rlp;
 final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
 return new ParentLocationPath(newrlp, plp.getStep());
}
else {
 addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
 return rlp;
}
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant
result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}
:}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

```

non terminal Expression Expr, Argument, LocationPath;  
non terminal Expression Predicate, FilterExpr, Step;  
non  
terminal Expression OrExpr, AndExpr, EqualityExpr;  
non terminal Expression RelationalExpr, AdditiveExpr;  
non terminal Expression MultiplicativeExpr, UnaryExpr;  
non terminal Expression VariableReference, FunctionCall;  
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;  
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;  
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;  
non terminal Pattern Pattern;  
non terminal Pattern LocationPathPattern;  
non terminal StepPattern ProcessingInstructionPattern;  
non terminal RelativePathPattern RelativePathPattern;  
non terminal StepPattern StepPattern;  
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;  
non terminal QName QName, FunctionName, VariableName;  
non terminal Integer AxisName, AxisSpecifier;  
non terminal  
Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;  
precedence left OR;  
precedence left AND;  
precedence nonassoc EQ, NE;  
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;  
precedence left DIV, MOD, MULT;  
precedence left DOLLAR;  
precedence left ATSIGN;  
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern

{ : RESULT = pattern; ; }

| EXPRESSION Expr:expr

{ : RESULT = expr; ; };

/\* ----- Patterns ----- \*/

Pattern ::= LocationPathPattern:lpp

{ : RESULT = lpp; : }

| LocationPathPattern:lpp VBAR Pattern:p

{ : RESULT = new AlternativePattern(lpp, p); : };

LocationPathPattern ::= SLASH

{ : RESULT = new AbsolutePathPattern(null); : }

| SLASH RelativePathPattern:rpp

{ : RESULT = new AbsolutePathPattern(rpp); : }

| IdKeyPattern:ikp

{ : RESULT = ikp; : }

| IdKeyPattern:ikp SLASH RelativePathPattern:rpp

{ : RESULT = new ParentPattern(ikp, rpp); : }

| IdKeyPattern:ikp DSLASH RelativePathPattern:rpp

{ : RESULT = new AncestorPattern(ikp, rpp); : }

| DSLASH RelativePathPattern:rpp

{ : RESULT = new AncestorPattern(rpp); : }

| RelativePathPattern:rpp

{ : RESULT = rpp; : };

IdKeyPattern ::= ID LPAREN Literal:l RPAREN

{ : RESULT = new IdPattern(l);

parser.setHasIdCall(true);

: }

| KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN

{ : RESULT = new KeyPattern(l1, l2); : };

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN

{ : RESULT = new ProcessingInstructionPattern(l); : };

RelativePathPattern ::= StepPattern:sp

{ : RESULT = sp; : }

| StepPattern:sp SLASH RelativePathPattern:rpp

{ : RESULT

= new ParentPattern(sp, rpp); : }

```

| StepPattern:sp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern:nt
{
 :
 RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
 :}

| NodeTestPattern:nt Predicates:pp
{
 :
 RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
 :}

| ProcessingInstructionPattern:pip
{: RESULT = pip; :}

| ProcessingInstructionPattern:pip Predicates:pp
{: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
{
 :
 RESULT = parser.createStepPattern(axis.intValue(), nt, null);
 :}

| ChildOrAttributeAxisSpecifier:axis
NodeTestPattern:nt Predicates:pp
{
 :
 RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
 :}

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
{
 :
 RESULT = pip; // TODO: report error if axis is attribute
 :}

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
Predicates:pp
{
 :
 // TODO: report error if axis is attribute
 RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
 :};

NodeTestPattern ::= NameTestPattern:nt
{: RESULT = nt; :}

| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}

```

```

| TEXT
{: RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}

| PI
{: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
{: RESULT = null; :}

| QName:qn
{: RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN

{: RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD DCOLON
{: RESULT = new Integer(Axis.CHILD); :}

| ATTRIBUTE DCOLON
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p
{:
Vector temp = new Vector();
temp.addElement(p);
RESULT = temp;
:}

| Predicate:p Predicates:pp
{: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK
{:
RESULT = new Predicate(e);
:};

/* ----- Expressions ----- */

Expr ::= OrExpr:ex
{: RESULT = ex; :};

OrExpr ::= AndExpr:ae
{: RESULT = ae; :}

```

| OrExpr:oe OR AndExpr:ae  
{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e  
{: RESULT = e; :}

| AndExpr:ae AND EqualityExpr:ee  
{: RESULT = new LogicalExpr(LogicalExpr.AND,  
ae, ee); :};

EqualityExpr ::= RelationalExpr:re  
{: RESULT = re; :}

| EqualityExpr:ee EQ RelationalExpr:re  
{: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

| EqualityExpr:ee NE RelationalExpr:re  
{: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae  
{: RESULT = ae; :}

| RelationalExpr:re LT AdditiveExpr:ae  
{: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

| RelationalExpr:re GT AdditiveExpr:ae  
{: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

| RelationalExpr:re LE AdditiveExpr:ae  
{: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

| RelationalExpr:re GE AdditiveExpr:ae  
{: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me  
{: RESULT = me; :}

| AdditiveExpr:ae PLUS MultiplicativeExpr:me  
{: RESULT = new BinOpExpr(BinOpExpr.PLUS,  
ae, me); :}

| AdditiveExpr:ae MINUS MultiplicativeExpr:me  
{: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue  
{: RESULT = ue; :}

| MultiplicativeExpr:me MULT UnaryExpr:ue

```

{: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

| MultiplicativeExpr:me DIV UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

| MultiplicativeExpr:me MOD UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue
{: RESULT = ue; :}

| MINUS UnaryExpr:ue
{: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
{: RESULT = pe; :}

| PathExpr:pe VBAR UnionExpr:rest
{: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
{: RESULT = lp; :}

| FilterExpr:fexp
{: RESULT = fexp; :}

| FilterExpr:fexp
SLASH RelativeLocationPath:rlp
{: RESULT = new FilterParentPath(fexp, rlp); :}

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{:
 //
 // Expand '/' into '/descendant-or-self::node()' or
 // into '/descendant-or-self::*'
 //
 int nodeType = DOM.NO_TYPE;
 if (rlp instanceof Step &&
 parser.isElementAxis(((Step) rlp).getAxis()))
 {
 nodeType = DTM.ELEMENT_NODE;
 }
 final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
 FilterParentPath fpp = new FilterParentPath(fexp, step);
 fpp = new FilterParentPath(fpp, rlp);
 if (fexp instanceof KeyCall == false) {
 fpp.setDescendantAxis();
 }
}

```



```

 RESULT = fpp;
};

LocationPath ::= RelativeLocationPath:rlp
 { : RESULT = rlp; : }

 | AbsoluteLocationPath:alp
 { : RESULT = alp; : };

RelativeLocationPath ::= Step:step
 { : RESULT
= step; : }

 | RelativeLocationPath:rlp SLASH Step:step
 { :
if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
 RESULT = step; // Remove './' from the middle
}
else if (((Step) step).isAbbreviatedDot()) {
 RESULT = rlp; // Remove './' from the end
}
else {
 RESULT =
 new ParentLocationPath((RelativeLocationPath) rlp, step);
}
: }

 | AbbreviatedRelativeLocationPath:arlp
 { : RESULT = arlp; : };

AbsoluteLocationPath ::= SLASH
 { : RESULT = new AbsoluteLocationPath(); : }

 | SLASH RelativeLocationPath:rlp
 { : RESULT = new AbsoluteLocationPath(rlp); : }

 | AbbreviatedAbsoluteLocationPath:aalp
 { : RESULT = aalp; : };

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
 { :
 final Step right = (Step)step;
 final
int axis = right.getAxis();
 final int type = right.getNodeType();
 final Vector predicates = right.getPredicates();

 if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {

```

```

// Compress '//child:E' into 'descendant::E' - if possible
if (predicates == null) {
 right.setAxis(Axis.DESCEMENDANT);
 if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
 RESULT = right;
 }
 else {
 // Expand 'rlp//child::E' into 'rlp/descendant::E'
 RelativeLocationPath left = (RelativeLocationPath)rlp;
 RESULT = new ParentLocationPath(left, right);
 }
}
else {
 // Expand '//step' -> 'descendant-or-self::*step'
 if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {

 Step left = new Step(Axis.DESCEMENDANTORSELF,
DTM.ELEMENT_NODE, null);
 RESULT = new ParentLocationPath(left, right);
 }
 else {
 // Expand 'rlp//step' -> 'rlp/descendant-or-self::*step'
 RelativeLocationPath left = (RelativeLocationPath)rlp;
 Step mid = new Step(Axis.DESCEMENDANTORSELF,
DTM.ELEMENT_NODE, null);
 ParentLocationPath ppl = new ParentLocationPath(mid, right);
 RESULT = new ParentLocationPath(left, ppl);
 }
}
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
 // Expand 'rlp//step' -> 'rlp/descendant-or-self::*step'
 RelativeLocationPath left = (RelativeLocationPath)rlp;
 Step middle = new Step(Axis.DESCEMENDANTORSELF,
DTM.ELEMENT_NODE, null);

 ParentLocationPath ppl = new ParentLocationPath(middle, right);
 RESULT = new ParentLocationPath(left, ppl);
}
else {
 // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
 RelativeLocationPath left = (RelativeLocationPath)rlp;
 Step middle = new Step(Axis.DESCEMENDANTORSELF,
DOM.NO_TYPE, null);
 ParentLocationPath ppl = new ParentLocationPath(middle, right);
 RESULT = new ParentLocationPath(left, ppl);
}
};

```

```

AbbreviatedAbsolutePath ::= DSLASH RelativeLocationPath:rlp
 {
 //
 // Expand '/' into '/descendant-or-self::node()' or
 // into '/descendant-or-self::*'
 //
 int nodeType = DOM.NO_TYPE;
 if (rlp instanceof Step &&
 parser.isElementAxis(((Step) rlp).getAxis()))
 {
 nodeType = DTM.ELEMENT_NODE;
 }
 final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
 RESULT =
new AbsoluteLocationPath(parser.insertStep(step,
 (RelativeLocationPath) rlp));
 };

```

```

Step ::= NodeTest:ntest
 {
 if (ntest instanceof Step) {
 RESULT = (Step)ntest;
 }
 else {
 RESULT = new Step(Axis.CHILD,
 parser.findNodeType(Axis.CHILD, ntest),
 null);
 }
 };

```

```

| NodeTest:ntest Predicates:pp
 {
 if (ntest instanceof Step) {
 Step step = (Step)ntest;
 step.addPredicates(pp);
 RESULT = (Step)ntest;
 }
 else {
 RESULT = new Step(Axis.CHILD,
 parser.findNodeType(Axis.CHILD, ntest), pp);
 }
 };

```

```

| AxisSpecifier:axis NodeTest:ntest Predicates:pp
 { RESULT = new Step(axis.intValue(),
 parser.findNodeType(axis.intValue(), ntest),

```

```

 pp);
 :}

 | AxisSpecifier:axis NodeTest:ntest
 {: RESULT = new Step(axis.intValue(),
 parser.findNodeType(axis.intValue(), ntest),
 null);
 :}

 | AbbreviatedStep:abbrev
 {: RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON
 {: RESULT = an; :}

 | ATSIGN
 {: RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::= ANCESTOR
 {: RESULT = new Integer(Axis.ANCESTOR); :}

 | ANCESTORORSELF
 {: RESULT = new Integer(Axis.ANCESTORORSELF); :}

 | ATTRIBUTE
 {: RESULT = new Integer(Axis.ATTRIBUTE); :}

 | CHILD
 {: RESULT = new Integer(Axis.CHILD); :}

 | DESCENDANT
 {: RESULT = new Integer(Axis.DESCEMENDANT); :}

 | DESCENDANTORSELF
 {: RESULT = new Integer(Axis.DESCEMENDANTORSELF); :}

 | FOLLOWING
 {: RESULT = new
Integer(Axis.FOLLOWING); :}

 | FOLLOWINGSIBLING
 {: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

 | NAMESPACE
 {: RESULT = new Integer(Axis.NAMESPACE); :}

 | PARENT
 {: RESULT = new Integer(Axis.PARENT); :}

```

```

| PRECEDING
{: RESULT = new Integer(Axis.PRECEDING); :}

| PRECEDINGSIBLING
{: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}

| SELF
{: RESULT = new Integer(Axis.SELF); :};

AbbreviatedStep ::= DOT
{: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}

| DDOT
{: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

FilterExpr ::= PrimaryExpr:primary
{: RESULT = primary; :}

| PrimaryExpr:primary Predicates:pp
{: RESULT = new FilterExpr(primary, pp); :};

PrimaryExpr ::= VariableReference:vr
{: RESULT = vr; :}

| LPAREN Expr:ex RPAREN
{: RESULT = ex; :}

| Literal:string
{:

/*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
 final String prefix = string.substring(0, index);
 namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
: new LiteralExpr(string, namespace);
:}

```

```

| INT:num
{:
long value = num.longValue();
if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
RESULT = new RealExpr(value);
}
else {
 if (num.doubleValue() == -0)
 RESULT = new RealExpr(num.doubleValue());
 else if (num.intValue() == 0)
 RESULT = new IntExpr(num.intValue());

 else if (num.doubleValue() == 0.0)
 RESULT = new RealExpr(num.doubleValue());
 else
 RESULT = new IntExpr(num.intValue());
}
:}

| REAL:num
{: RESULT = new RealExpr(num.doubleValue()); :}

| FunctionCall:fc
{: RESULT = fc; :};

```

VariableReference ::= DOLLAR VariableName:varName

```

{:
// An empty QName prefix for a variable or parameter reference
// should map to the null namespace and not the default URI.
SyntaxTreeNode node = parser.lookupName(varName);

if (node != null) {
 if (node instanceof Variable) {
 RESULT = new VariableRef((Variable)node);
 }
 else if (node instanceof Param) {
 RESULT = new ParameterRef((Param)node);
 }
 else {
 RESULT = new UnresolvedRef(varName);
 }
}

if (node == null) {
 RESULT = new UnresolvedRef(varName);
}
:};

```

FunctionCall ::= FunctionName:fname LPAREN RPAREN

```
{:

 if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
 RESULT = new CurrentCall(fname);
 }
 else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
 RESULT = new NumberCall(fname, parser.EmptyArgs);
 }
 else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
 RESULT = new StringCall(fname, parser.EmptyArgs);
 }
 else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
 RESULT = new ConcatCall(fname, parser.EmptyArgs);
 }
 else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
 RESULT = new BooleanExpr(true);
 }
 else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {

 RESULT = new BooleanExpr(false);
 }
 else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
 RESULT = new NameCall(fname);
 }
 else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
 RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
 }
 else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
 RESULT = new StringLengthCall(fname, parser.EmptyArgs);
 }
 else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
 RESULT = new PositionCall(fname);
 }
 else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
 RESULT = new LastCall(fname);
 }
 else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
 RESULT = new LocalNameCall(fname);
 }
 else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
 RESULT = new NamespaceUriCall(fname);
 }

 else {
 RESULT = new FunctionCall(fname, parser.EmptyArgs);
 }
:}
```

```

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN
{:
 if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
 RESULT = new ConcatCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
 RESULT = new NumberCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
parser.setMultiDocument(true);
 RESULT = new DocumentCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
 RESULT = new StringCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
 RESULT = new BooleanCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {

RESULT = new NameCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
 RESULT = new GenerateIdCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
 RESULT = new NotCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
 RESULT = new FormatNumberCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
 RESULT = new UnparsedEntityUriCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
 RESULT = new KeyCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
 RESULT = new KeyCall(fname, argl);
 parser.setHasIdCall(true);
 }
 else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
{
 RESULT = new CeilingCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
 RESULT = new RoundCall(fname, argl);
 }

```



```

}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
 RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
 RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
 RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
 RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
 RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname))
{
 RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
 RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
 RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
 RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Constants.TRANSLET_URI, "xslt", "cast").equals(fname)) {
 RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
parser.setCallsNodeset(true); // implies MultiDOM
 RESULT = new FunctionCall(fname, argl);
}
else {
 RESULT = new FunctionCall(fname, argl);
}
};

```

NonemptyArgumentList

::= Argument:arg

```

{:
 Vector temp = new Vector();
 temp.addElement(arg);
 RESULT = temp;
}

```

```
};
```

```
| Argument:arg COMMA NonemptyArgumentList:argl
{: argl.insertElementAt(arg, 0); RESULT = argl; :};
```

```
FunctionName ::= QName:fname
```

```
{:
 RESULT = fname;
:};
```

```
VariableName ::= QName:vname
```

```
{:
 RESULT = vname;
:};
```

```
Argument ::= Expr:ex
```

```
{: RESULT = ex; :};
```

```
NodeTest ::= NameTest:nt
```

```
{: RESULT = nt; :}
```

```
| NODE
```

```
{: RESULT = new Integer(NodeTest.ANODE); :}
```

```
| TEXT
```

```
{: RESULT = new Integer(NodeTest.TEXT); :}
```

```
| COMMENT
```

```
{: RESULT = new Integer(NodeTest.COMMENT); :}
```

```
| PIPARAM LPAREN Literal:l RPAREN
```

```
{:
 QName name = parser.getQNameIgnoreDefaultNs("name");
 Expression exp = new EqualityExpr(Operators.EQ,
 new NameCall(name),
 new LiteralExpr(l));
 Vector predicates = new Vector();
 predicates.addElement(new Predicate(exp));
 RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
:}
```

```
| PI
```

```
{: RESULT = new Integer(NodeTest.PI); :};
```

```
NameTest ::= STAR
```

```
{: RESULT = null; :}
```

```
| QName:qn
```

```

 {: RESULT = qn; :};

QName ::= QNAME:qname
 {: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

| DIV
 {: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

| MOD
 {: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

| KEY
 {: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

| ANCESTOR
 {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| ANCESTORORSELF
 {: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

| ATTRIBUTE
 {: RESULT
= parser.getQNameIgnoreDefaultNs("attribute"); :}

| CHILD
 {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| DESCENDANT
 {: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

| DESCENDANTORSELF
 {: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

| FOLLOWING
 {: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

| FOLLOWINGSIBLING
 {: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

| NAMESPACE
 {: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

| PARENT
 {: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

| PRECEDING
 {: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

```

| PRECEDINGSIBLING

```
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}
```

| SELF

```
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}
```

| ID

```
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup
```

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```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
```

```
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```

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
```

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties
```

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
```

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc
```

```
*
```

```
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
```

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties
```

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties
```

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```

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* distributed under the License is distributed on an "AS IS" BASIS,
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*/
// is found, then throw a special exception in order to terminate
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
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*/
// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/ToHTMLStream.java
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- \*/

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- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
- \*
- \*/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
- \*

/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html  
\*  
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\*/  
/\*\*  
\* Execute the proprietary document-location() function, which returns  
\* a node set of documents.  
\* @xsl.usage advanced  
\*/

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* limitations under the License.
```

```
*/
```

```
/*
```

```
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
```

```
*/
```

```
package org.apache.xalan.processor;
```

```
/**
```

```
* Administrative class to keep track of the version number of
* the Xalan release.
```

```
* <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
```

```
* @deprecated To be replaced by org.apache.xalan.Version.getVersion()
```

```
* @xsl.usage general
```

```
*/
```

```
public class XSLProcessorVersion
```

```
{
```

```
/**
```

```
* Print the processor version to the command line.
```

```
*
```

```
* @param argv command line arguments, unused.
```

```
*/
```

```
public static void main(String argv[])
```

```
{
```

```
 System.out.println(S_VERSION);
```

```
}
```

```
/**
```

```
* Constant name of product.
```

```
*/
```

```
public static final String PRODUCT = "Xalan";
```

```
/**
```

```
* Implementation Language.
```

```
*/
```

```
public static final String LANGUAGE = "Java";
```

```
/**
```

```
* Major version number.
```

```
* Version number. This changes only when there is a
```



\* significant, externally apparent enhancement from  
\* the previous release. 'n' represents the n'th  
\* version.  
\*  
\* Clients should carefully consider  
the implications  
\* of new versions as external interfaces and behaviour  
\* may have changed.  
\*/  
public static final int VERSION = @version.VERSION@;

/\*\*  
\* Release Number.  
\* Release number. This changes when:  
\* - a new set of functionality is to be added, eg,  
\* implementation of a new W3C specification.  
\* - API or behaviour change.  
\* - its designated as a reference release.  
\*/  
public static final int RELEASE = @version.RELEASE@;

/\*\*  
\* Maintenance Drop Number.  
\* Optional identifier used to designate maintenance  
\* drop applied to a specific release and contains  
\* fixes for defects reported. It maintains compatibility  
\* with the release and contains no API changes.  
\* When missing, it designates the final and complete  
\* development drop for a release.  
\*/  
public static final int MAINTENANCE  
= @version.MINOR@;

/\*\*  
\* Development Drop Number.  
\* Optional identifier designates development drop of  
\* a specific release. D01 is the first development drop  
\* of a new release.  
\*  
\* Development drops are works in progress towards a  
\* completed, final release. A specific development drop  
\* may not completely implement all aspects of a new  
\* feature, which may take several development drops to  
\* complete. At the point of the final drop for the  
\* release, the D suffix will be omitted.  
\*  
\* Each 'D' drops can contain functional enhancements as  
\* well as defect fixes. 'D' drops may not be as stable as

```

* the final releases.
*/
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"Xalan Language
 * v.r[.dd] Dnn]"</CODE>.
 * <P>Semantics of the version string are
 identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
 +VERSION+"."+RELEASE+"."
 +(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
 : (""+MAINTENANCE));

}

```

Found in path(s):

```

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.src

```

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```

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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
/*
 * $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
 */

```

```

/*
 * @author Jacek Ambroziak
 * @author
 Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 */

```

```

*/

package org.apache.xalan.xsltc.compiler;

import java_cup.runtime.Symbol;
%%
%cup
%unicode
%class XPathLexer
%yyeof

%{
 int last;

 void initialize() {
 last = -1;
 }

 static boolean isWhitespace(int c) {
 return (c == ' ' || c == '\t' || c == '\r' || c == '\n' || c == '\f');
 }

 /**
 * If symbol is not followed by ':' or '(', then treat it as a
 * name instead of an axis or function (Jira-1912).
 */
 Symbol disambiguateAxisOrFunction(int ss) throws Exception {
 // Peek in the input buffer without changing the internal state
 int index = yy_buffer_index;

 // Skip whitespace
 while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
 index++;
 }

 // If end of buffer, can't disambiguate :(

 if (index >= yy_buffer_read) {
 // Can't disambiguate, so return as symbol
 return new Symbol(ss);
 }

 // Return symbol if next token is ':' or '('
 return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
 yy_buffer[index] == '(') ?
 new Symbol(ss) : new Symbol(sym.QNAME, yytext());
 }
}

```

```
/**
```

```
* If symbol is first token or if it follows any of the operators
* listed in http://www.w3.org/TR/xpath#exprlex then treat as a
* name instead of a keyword (Jira-1912).
*/
```

```
Symbol disambiguateOperator(int ss) throws Exception {
```

```
 switch (last) {
 case -1: // first token
 case sym.ATSIGN:
 case sym.DCOLON:
 case sym.LPAREN:
 case sym.LBRACK:
 case sym.COMMA:
 case sym.AND:
 case sym.OR:
 case
sym.MOD:
 case sym.DIV:
 case sym.MULT:
 case sym.SLASH:
 case sym.DSLASH:
 case sym.VBAR:
 case sym.PLUS:
 case sym.MINUS:
 case sym.EQ:
 case sym.NE:
 case sym.LT:
 case sym.LE:
 case sym.GT:
 case sym.GE:
 return newSymbol(sym.QNAME, yytext());
 }
 return newSymbol(ss);
}
```

```
/**
```

```
* If symbol is first token or if it follows any of the operators
* listed in http://www.w3.org/TR/xpath#exprlex then treat as a
* wildcard instead of a multiplication operator
*/
```

```
Symbol disambiguateStar() throws Exception {
```

```
 switch (last) {
 case -1: // first token
 case sym.ATSIGN:
 case sym.DCOLON:
 case sym.LPAREN:
 case sym.LBRACK:
 case sym.COMMA:
```

```

case sym.AND:
 case sym.OR:
 case sym.MOD:
 case sym.DIV:
 case sym.MULT:
 case sym.SLASH:
 case sym.DSLASH:
 case sym.VBAR:
 case sym.PLUS:
 case sym.MINUS:
 case sym.EQ:
 case sym.NE:
 case sym.LT:
 case sym.LE:
 case sym.GT:
 case sym.GE:
 return newSymbol(sym.STAR);
 }
 return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
 last = ss;
 return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
 last = ss;
 return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
 last = ss;
 return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
 last = ss;
 return new
Symbol(ss, value);
}
% }

%eofval{
return newSymbol(sym.EOF);
%eofval}

```

%yylexthrow{

Exception

%yylexthrow }

Letter={BaseChar}|{Ideographic }

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-\u1112\u1113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-\u30FA\u3105-\u312C\uAC00-\uD7A3]

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]

CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-

`\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]`

`Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-\u0ED9\u0F20-\u0F29]`

`Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]`

`NCName={({Letter}}|"_"){NCNameStartChar})({NCNameChar})*`

`NCNameChar={Letter}|{Digit}|"."-""|_{CombiningChar}|{Extender}|{NCNameStartChar}|  
\u00B7 | [\u0300-\u036F] | [\u203F-\u2040] | [\u0130-\u0136]`

`NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFD] | \u005F |({HighSurrogate}{LowSurrogate})`

`HighSurrogate=[\uD800-\uDBFF]`

`LowSurrogate=[\uDC00-\uDFFF]`

`%%`

```
"*" { return disambiguateStar(); }
"/" { return newSymbol(sym.SLASH); }
"+" { return newSymbol(sym.PLUS); }
"-" { return newSymbol(sym.MINUS); }
"div" { return disambiguateOperator(sym.DIV); }
"mod" { return disambiguateOperator(sym.MOD); }
"::" { return newSymbol(sym.DCOLON); }
"," { return newSymbol(sym.COMMA); }
"@ { return newSymbol(sym.ATSIGN); }
".. { return newSymbol(sym.DDOT); }
"|" { return newSymbol(sym.VBAR); }
"$" { return newSymbol(sym.DOLLAR); }
"//" { return newSymbol(sym.DSLASH); }
"=" { return newSymbol(sym.EQ); }
"!=" { return newSymbol(sym.NE); }
"<" { return newSymbol(sym.LT); }
">" { return newSymbol(sym.GT); }
"<=" { return newSymbol(sym.LE); }
">=" { return newSymbol(sym.GE); }
"id" { return disambiguateAxisOrFunction(sym.ID); }
"key" { return disambiguateAxisOrFunction(sym.KEY); }
"text()" { return newSymbol(sym.TEXT); }
"text"+[\t\r\n\f]+() { return newSymbol(sym.TEXT); }
```

```

"node()" { return newSymbol(sym.NODE); }
"node"+[\t\r\n\f]+"() { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment"+[\t\r\n\f]+"() { return newSymbol(sym.COMMENT); }
"processing-instruction"
{ return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction"+[\t\r\n\f]+"() { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following" { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
}
"namespace" { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent" { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self" { return disambiguateAxisOrFunction(sym.SELF); }
"[" { return newSymbol(sym.LBRACK); }
"]" { return newSymbol(sym.RBRACK); }
"(" { return newSymbol(sym.LPAREN); }
")" { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\[^\]*\ { return newSymbol(sym.Literal,
 yytext().substring(1, yytext().length() - 1)); }
\[^\]*\' { return newSymbol(sym.Literal,
 yytext().substring(1,
 yytext().length() - 1)); }
{Digit}+ { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+(\."{Digit}*)? { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+ { return newSymbol(sym.REAL, new Double(yytext())); }
"." { return newSymbol(sym.DOT); }
({NCName}":")?{NCName} { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?*" { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?@"* { return newSymbol(sym.QNAME, yytext()); }
[\t\r\n\f] { /* ignore white space. */ }
. { throw new Exception(yytext()); }

```

Found in path(s):

```

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.lex

```



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 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
// Proprietary, built in functions
/** current function string (Proprietary). */
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/Keywords.java
```

# 1.195 commons-cli 1.4

## 1.195.1 Available under license :

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Ty Coon, President of Vice
```

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# 1.197 commons-codec 1.11

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```
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/annotation/StringMemberValue.java
*
/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/annotation/Annotation.java
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jar/javassist/bytecode/annotation/ShortMemberValue.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/annotation/ByteMemberValue.java
*
/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
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jar/javassist/bytecode/annotation/BooleanMemberValue.java  
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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
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jar/javassist/bytecode/annotation/CharMemberValue.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/bytecode/annotation/LongMemberValue.java  
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jar/javassist/compiler/NoFieldException.java  
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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/MethodCall.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ClassFileWriter.java  
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jar/javassist/bytecode/stackmap/TypeData.java  
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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/Callback.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/Modifier.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/bytecode/stackmap/TypeTag.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/runtime/Inner.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/bytecode/analysis/FramePrinter.java  
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jar/javassist/tools/rmi/StubGenerator.java  
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jar/javassist/tools/rmi/ObjectNotFoundException.java  
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/opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/scopedpool/SoftValueHashMap.java  
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/opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Analyzer.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtClassType.java  
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## 1.201 zap 1.15.0

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Found in path(s):

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java

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jar/javax/validation/constraints/AssertFalse.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Future.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/DecimalMax.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Positive.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/NotEmpty.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/spi/ConfigurationState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Payload.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Past.java
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```

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~

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Found in path(s):

```
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-
INF/maven/jakarta.validation/jakarta.validation-api/pom.xml
```

## 1.204 commons-lang3 3.7

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jar/org/objectweb/asm/commons/package.html

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jar/org/objectweb/asm/tree/analysis/package.html

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\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/util/package.html

\*

/opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/attrs/package.html

\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/package.html

\* /opt/cola/permits/1136493993\_1613774733.35/0/asm-all-3-2-sources-2-

jar/org/objectweb/asm/signature/package.html

## 1.221 libapache2-mod-authnz-external 3.3.2-0.1

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\* /opt/cola/permits/1137148391\_1614022750.79/0/libapache2-mod-authnz-external-3-3-2-orig-1-tar-  
gz/mod\_authnz\_external-3.3.2/mod\_authnz\_external.c

# 1.222 libapache2-mod-authz-unixgroup 1.1.0-0.1

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Mod\_auth\_unixgroup

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# 1.223 gojsonpointer 0.0.0-20190905194746-02993c407bfb

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# 1.224 visual-studio-runtime 14.00.24210.0

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)



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## 1.227 man-pages 5.05-1



## 1.227.1 Available under license :

```
#!/bin/sh
#
find_dot_no_parens.sh
#
Look for function names after /^.[BIR]/ that aren't
followed by "()".
#
This script is designed to help with "by hand" tidy-ups after
the automated changes made by add_parens_for_own_funcs.sh.
#
The first argument to this script names a manual page directory where
'man2' and 'man3' subdirectories can be found. The pages names in
these directories are used to generate a series of regular expressions
that can be used to search the manual page files that are named in
the remaining command-line arguments.
#
Example usage:
#
cd man-pages-x.yy
sh find_dots_no_parens.sh . man?/*.* > matches.log
#
#####
#
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```

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# 1.228 python-idna 2.8-1

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```
"""
```

```
A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.
```

```
"""
```

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
 python_version = sys.version_info[:2]
```

```
 if python_version < (2,7):
```

```
 raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
 package_data = { }
```

```
 exec(open('idna/package_data.py').read(), package_data)
```

```
 arguments = {
```

```
 'name': 'idna',
```

```
 'packages': ['idna'],
```

```
 'version': package_data['__version__'],
```

```
 'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
 'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
 'author': 'Kim Davies',
```

```
 'author_email': 'kim@cynosure.com.au',
```

```
 'license': 'BSD-like',
```

```
 'url': 'https://github.com/kjd/idna',
```

```
 'classifiers': [
```

```
 'Development Status :: 5 - Production/Stable',
```

```
 'Intended Audience :: Developers',
```

```
 'Intended Audience :: System Administrators',
```

```
 'License :: OSI Approved :: BSD License',
```

```
 'Operating System :: OS Independent',
```

```
 'Programming Language :: Python',
```

```
 'Programming Language :: Python :: 2',
```

```
 'Programming Language :: Python :: 2.7',
```

```
 'Programming Language :: Python :: 3',
```

```
 'Programming Language :: Python :: 3.4',
```

```
 'Programming Language :: Python :: 3.5',
```

```
 'Programming Language :: Python :: 3.6',
```

```
 'Topic :: Internet :: Name Service (DNS)',
```

```
 'Topic :: Software Development :: Libraries :: Python Modules',
```

```
 'Topic :: Utilities',
```

```
],
```



```
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)
```

```
if __name__ == '__main__':
 main()
```

Found in path(s):

\* /opt/cola/permits/1138607654\_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/setup.py

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Metadata-Version: 1.2

Name: idna

Version: 2.8

Summary: Internationalized Domain Names in Applications (IDNA)

Home-page: <https://github.com/kjd/idna>

Author: Kim Davies

Author-email: [kim@cynosure.com.au](mailto:kim@cynosure.com.au)

License: BSD-like

Description: Internationalized Domain Names in Applications (IDNA)

=====

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <<http://tools.ietf.org/html/rfc5891>>`. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>`.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <<http://tools.ietf.org/html/rfc3490>>`).

Basic functions are simply executed:

```
.. code-block:: pycon
```

```
Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.
```

```
Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.
```

## Packages

-----

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg
:target: http://badge.fury.io/py/idna
```

## Installation

-----

To install this library,  
you can use pip:

```
.. code-block:: bash
```

```
$ pip install idna
```

Alternatively, you can install the package using the bundled setup script:

```
.. code-block:: bash
```

```
$ python setup.py install
```

This library works with Python 2.7 and Python 3.4 or later.

## Usage

-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```
.. code-block:: pycon
```

```
Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
```

You may use the codec encoding and decoding methods using the `idna.codec` module:

```
.. code-block:: pycon
```

```
Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```
.. code-block:: pycon
```

```
Python 2
>>> idna.alabel(u")
'xn--0zwm56d'
```

#### Compatibility Mapping (UTS #46)

```
+++++
```

As described in [RFC 5895](http://tools.ietf.org/html/rfc5895) [\[http://tools.ietf.org/html/rfc5895\]](http://tools.ietf.org/html/rfc5895), the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as [Unicode IDNA Compatibility Processing](http://unicode.org/reports/tr46/) [\[http://unicode.org/reports/tr46/\]](http://unicode.org/reports/tr46/), it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as `*LATIN CAPITAL LETTER K*` is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

```
.. code-block:: pycon
```

```
Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
```

```

idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen

```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the \*LATIN SMALL LETTER SHARP S\* (ß) was converted into two \*LATIN SMALL LETTER S\* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

```

Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'

```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

```

`encodings.idna` Compatibility
+++++

```

Function calls from the Python built-in `encodings.idna` module are mapped to their IDNA 2008 equivalents using the `idna.compat` module. Simply substitute the `import` clause in your code to refer to the new module name.

#### Exceptions

-----

All errors raised during the conversion following the specification should raise an exception derived from the `idna.IDNAError` base class.

More specific exceptions that may be generated as `idna.IDNABidiError` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; `idna.InvalidCodepoint` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and `idna.InvalidCodepointContext` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

#### Building and Diagnostics

-----

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

\* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables used for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

\* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <<http://iana.org/>>.

\* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

## Testing

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The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, 'Unicode IDNA Compatibility Processing' <<http://unicode.org/reports/tr46/>>.

The tests are run automatically on each commit at Travis CI:

```
.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
 :target: https://travis-ci.org/kjd/idna
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable  
Classifier: Intended Audience :: Developers  
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Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Topic :: Internet :: Name Service (DNS)  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Classifier: Topic :: Utilities  
Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*

Found in path(s):

\* /opt/cola/permits/1138607654\_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO  
\* /opt/cola/permits/1138607654\_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/PKG-INFO

## 1.229 alsa-topology-conf 1.2.2-1

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## 1.230 chardet 3.0.4-4build1

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```
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```

```
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Ty Coon, President of Vice
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```
/* checkTag : validation tool for libzstd
* command :
* $./checkTag tag
* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
* The tag is then compared to zstd version number.
* They are compatible if first 3 digits are identical.
* Anything beyond that is free, and doesn't impact validation.
* Example : tag v1.8.1.2 is compatible with version 1.8.1
* When tag and version are not compatible, program exits with error code 1.
* When they are compatible, it exists with a code 0.
* checkTag is intended to be used in automated testing environment.
*/
```

## 1.237 pcre 8.44

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#### PCRE2 LICENCE

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#### THE BASIC LIBRARY FUNCTIONS

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England.

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# 1.238 libtasn 4.16.0-2

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

Source: <https://github.com/lz4/lz4>

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## 1.241 gorilla 1.8.0

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## 1.245 lann-ps 0.0.0-20150810152359-62de8c46ede0

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# 1.249 x-time-rate 0.0.0-20210220033141-f8bda1e9f3ba

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# 1.250 tacacs-plus 2.6

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## 1.251 python-pam 1.8.4

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## 1.253 cachecontrol 0.12.6

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## 1.254 urllib3 1.25.8

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

\* victor.vde <<http://code.google.com/u/victor.vde/>>

\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests

- \* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
- \* Code review, PEP8 compliance, benchmark fix
  
- \* kennethreitz <[me@kennethreitz.com](mailto:me@kennethreitz.com)>
- \* Bugfixes, suggestions, Requests integration
  
- \* georgemarshall <<https://github.com/georgemarshall>>
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- \* Support for explicitly closing pooled connections
  
- \* hartator <[hartator@gmail.com](mailto:hartator@gmail.com)>
- \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <[thomas@t-8ch.de](mailto:thomas@t-8ch.de)>
- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <[mig@ibofobi.dk](mailto:mig@ibofobi.dk)>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <[marc.schlaich@gmail.com](mailto:marc.schlaich@gmail.com)>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <[bbzbryce@gmail.com](mailto:bbzbryce@gmail.com)>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <[boris.figovsky@ravello systems.com](mailto:boris.figovsky@ravello systems.com)>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield
- <<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.



- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)

- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
<asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.

- \* Christian Pedersen <<https://github.com/chripede>>
  - \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <<https://github.com/jmoldow>>
  - \* Fix low-level exceptions leaking from ```HTTPResponse.stream()```.
  - \* Bugfix for ```ConnectionPool.urlopen(release_conn=False)```.
  - \* Creation of ```HTTPConnectionPool.ResponseCls```.
  
- \* Predrag Gruevski <<https://github.com/obi1kenobi>>
  - \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <<https://github.com/a-tal>>
  - \* Bugfix to `ca_cert` file paths.
  
- \* Evan Meagher <<https://evanmeagher.net>>
  - \* Bugfix related to `memoryview`` usage in PyOpenSSL adapter
  
- \* John Vandenberg <[jayvdb@gmail.com](mailto:jayvdb@gmail.com)>
  - \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
  - \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
  - \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
  - \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto:jesse@jesseshapiro.net)>
  - \* Various character-encoding fixes/tweaks
  - \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <<http://dafoster.net/>>
  - \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
  - \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
  - \* History list to Retry object.
  - \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <[nate.prewitt@gmail.com](mailto:nate.prewitt@gmail.com)>
  - \* Ensure timeouts are not booleans and greater than zero.
  - \* Fixed infinite loop in ```stream``` when `amt=None`.

- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
  - \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
  - \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
  - \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
  - \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
  - \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  - \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
  - \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
  - \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
  - \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
  - \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
  - \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
  - \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
  - \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
  - \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  - \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>

- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- \* Bruce Merry <<https://www.brucemerry.org.za>>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
- \* Hugo van Kemenade <<https://github.com/hugovk>>
- \* Drop support for EOL Python 2.6
- \* Tim Bell <<https://github.com/timb07>>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
- \* Justin Bramley <<https://github.com/jbramleycl>>
- \* Add ability to handle multiple Content-Encodings
- \* Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>
- \* Remove Authorization header regardless of case when redirecting to cross-site
- \* James Meickle <<https://permadeath.com/>>
- \* Improve handling of Retry-After header
- \* Chris Jerdonek <[chris.jerdonek@gmail.com](mailto:chris.jerdonek@gmail.com)>
- \* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 1.255 python-pip 20.0.2

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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2			
2012	PSF	yes		

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- Wichert Akkerman, 2012/02/02

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes

2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.



Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
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3.2	3.1	2010	PSF	yes

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

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## 1.256 contextlib2 0.6.0

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes

3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
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3.3	3.2			
2012	PSF	yes		

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# 1.261 lz4 1.9.2-2ubuntu0.20.04.1

## 1.261.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: lz4

Source: <https://github.com/Cyan4973/lz4>

Files: \*

Copyright: Copyright (C) 2011-2017, Yann Collet.

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Files: lib/\*

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Files: lib/liblz4.pc.in

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Files: lib/lz4frame.c

lib/lz4frame\_static.h

lib/xxhash.c

lib/xxhash.h

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Files: programs/platform.h

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Files: programs/util.h

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Files: ./examples/printVersion.c

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Files: ./examples/blockStreaming\_lineByLine.c  
./examples/blockStreaming\_doubleBuffer.c  
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Files: ./examples/HCStreaming\_ringBuffer.c  
./examples/blockStreaming\_ringBuffer.c  
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Files: ./examples/compress\_functions.c  
./examples/simple\_buffer.c  
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## 1.262 python-stdlib-extensions 3.8.10- Ubuntu1~20.04

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```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/driver.py
```

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/driver.py
```

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/driver.py
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```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/__init__.py
```

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/grammar.py
```

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/pgen.py
```

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/parse.py
```

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/parse.py
```

```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/literals.py
```

```
*
/opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/lib2to3/pgen2/__init__.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/pgen2/pgen.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/pgen2/parse.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/pgen2/conv.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/lib2to3/pgen2/grammar.py
```

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*
/opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.6/Lib/lib2to3/pgen2/conv.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.8/Lib/lib2to3/pgen2/conv.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
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```

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```
/******
```

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```
*****/
```

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```
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
extensions-3.8.2/3.7/Modules/_tkinter.c
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-
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# A grammar to describe tree matching patterns.

# Not shown here:  
# - 'TOKEN' stands for any token (leaf node)  
# - 'any' stands for any node (leaf or interior)  
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('| Alternative)\*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]  
| NAME [Details] [Repeater]  
| '(' Alternatives ')' [Repeater]  
| '[' Alternatives '']  
)

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '\*' | '+' | '{' NUMBER [, NUMBER] '}'

Details: '<' Alternatives '>'

Found in path(s):

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt

\*

/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/PatternGrammar.txt

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('binary-only', None,

"cannot supply both '--source-only' and '--binary-only'")

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- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_print.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_apply.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/refactor.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixer\_base.py
- \*
- /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/patcomp.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_long.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/test\_pytree.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/pytree\_idempotency.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_execfile.py
- \*
- /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_long.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pytree.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pytree.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_repr.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_exec.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixer\_base.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py
- \*
- /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/pytree\_idempotency.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_ne.py

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\*

/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixer\_base.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_has\_key.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_apply.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/refactor.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test\_pytree.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_repr.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_apply.py

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/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_long.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_exec.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pytree.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/test\_pytree.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_print.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_ne.py

\*

/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/pytree\_idempotency.py

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\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_execfile.py

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extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_has\_key.py

\*

/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_exec.py

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\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_dict.py

\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_filter.py

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/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_types.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_filter.py  
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\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist\_msi.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist\_msi.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwincompiler.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist\_wininst.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist\_msi.py  
\*  
/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist\_wininst.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwincompiler.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwincompiler.py  
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\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py  
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executable.

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\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/spawn.py



```
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/spawn.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/spawn.py
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```

```
file.write('License: %s\n' % self.get_license())
```

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/dist.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/dist.py
```

## 1.263 markupsafe 2.0.1

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# 1.264 libnettle6 3.5.1+really3.5.1-2ubuntu0.2

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/\* nettle-internal.c

Things that are used only by the testsuite and benchmark, and not included in the library.

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Upstream-Contact: Niels Mller <nisse@lysator.liu.se>

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.

A list of the supported algorithms, their origins and licenses (from the manual):

.

#### AES

The implementation of the AES cipher (also known as rijndael) is written by Rafael Sevilla. Assembler for x86 by Rafael Sevilla and Niels Mller, Sparc assembler by Niels Mller. Released under the LGPL.

.

#### ARCFOUR

The implementation of the ARCFOUR (also known as RC4) cipher is written by Niels Mller. Released under the LGPL.

.

#### ARCTWO

The implementation of the ARCTWO (also known as RC2) cipher is written by Nikos Mavroyanopoulos and modified by Werner Koch and Simon Josefsson. Released under the LGPL.

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#### BLOWFISH

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#### CAMELLIA

The C implementation is by Nippon Telegraph and Telephone Corporation (NTT), heavily modified by Niels Mller. Assembler for x86 and x86\_64 by Niels Mller. Released under the LGPL.

.

## CAST128

The implementation of the CAST128 cipher is written by Steve Reid.  
Released into the public domain.

.

## DES

The implementation of the DES cipher is written by Dana L. How, and  
released under the LGPL.

.

## MD2

The implementation of MD2 is written by Andrew Kuchling,  
and hacked  
some by Andreas Sigfridsson and Niels Mller. Python Cryptography  
Toolkit license (essentially public domain).

.

## MD4

This is almost the same code as for MD5 below, with modifications  
by Marcus Comstedt. Released into the public domain.

.

## MD5

The implementation of the MD5 message digest is written by Colin  
Plumb. It has been hacked some more by Andrew Kuchling and Niels  
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## SERPENT

The implementation of the SERPENT is based on the code in  
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Adapted to Nettle by Simon Josefsson and heavily modified by  
Niels Mller. Assembly for x86\_64 by Niels Mller. Released under  
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## SHA1

The C implementation of the SHA1 message digest is written by Peter  
Gutmann, and hacked some more by Andrew Kuchling and Niels Mller.  
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## SHA224, SHA256, SHA384, and SHA512

Written by Niels Mller, using Peter Gutmann's SHA1 code as a  
model. Released under the LGPL.

.

## TWOFISH

The implementation of the TWOFISH cipher is written by Ruud de  
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## RSA

Written by Niels Mller, released under the LGPL. Uses the GMP  
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Files: sha\*

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Files: twofish\*

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Files: testsuite/des-compat-test.c

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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Also

included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

## THE BASIC LIBRARY FUNCTIONS

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[Misc

C library code]

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[zlib]

/\* zlib.h -- interface of

the 'zlib' general purpose compression library

version 1.2.3, July 18th, 2005

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Jean-loup

Gailly     Mark Adler

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

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[dialyzer]

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[hipe]

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[edoc, syntax\_tools]

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[eldap]

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# 1.277 cglib 3.3

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## 1.279 distlib 0.3.3

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=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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# 1.284 jcmtturner-dnsutils 1.0.1

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\* /opt/cola/permits/1212202758\_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/ProtoServiceDescriptorSupplier.java  
\* /opt/cola/permits/1212202758\_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/package-info.java  
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/opt/cola/permits/1212202758\_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/StatusProto.java

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\* /opt/cola/permits/1212202758\_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/ProtoFileDescriptorSupplier.java  
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\* /opt/cola/permits/1212202758\_1634074081.68/0/grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/ProtoUtils.java

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```
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# 1.315 go.uber.org/atom1 1.8.0

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## 1.316 openzipkin-zipkin-go 0.2.5

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## 1.321 grpc-ecosystem-go-grpc-middleware

### 1.3.0

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## 1.322 zap 1.17.0

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## 1.323 xxhash 2.1.2

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## 1.328 sanitized-anchor-name 1.0.0

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## 1.329 zap 1.19.0

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## 1.330 prometheus-common 0.26.0

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# 1.332 spf13-pflag 1.0.5

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# 1.333 golang-glog 0.0.0-20160126235308-23def4e6c14b

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#

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## 1.336 json-iterator-go 1.1.10

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procs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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## 1.338 grpc-ecosystem-go-grpc-middleware

### 1.2.2

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## 1.344 mitchellh-mapstructure 1.1.2

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## 1.345 moby-locker 1.0.1

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## 1.346 aec 1.0.0

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# 1.348 grpc-ecosystem-go-grpc-middleware

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# 1.352 bits-and-blooms-bitset 1.2.0

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# 1.354 rcrowley-go-metrics 0.0.0-20201227073835-cf1acfcdf475

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## 1.356 easyjson 0.7.6

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# 1.357 gopsutil 3.21.4+incompatible

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## 1.358 go-asn1-ber-asn1-ber 1.5.1

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# 1.360 go-test-deep 1.0.7

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# 1.362 grpc-go 1.41.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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## 1.365 go-errors-errors 1.2.0

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# 1.366 prometheus-common 0.18.0

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## 1.367 gopkg-in/ldap 2.5.1

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## 1.368 flag 1.7.4-pre

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## 1.369 golang-glog 0.0.0-20210429001901-424d2337a529



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## 1.371 go-errors-errors 1.0.2

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## 1.376 fiorix-go-diameter 3.0.2+incompatible

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#

# Please keep the list sorted.

#

# Use the following command to generate the list

#

# git shortlog -se | awk '{print \$2 " " \$3 " " \$4}'

#

# and do appropriate cleanups.

DanB <danb@cgrates.org>

David Wilkie <dwilkie@gmail.com>

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jaroszan <jaroslaw.szangin@gmail.com>

mspronk <martijn@orangemountain.ca>

# 1.377 ishidadawataru-sctp 0.0.0- 20210226210310-f2269e66cdee

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## 1.0.1-0.20190118093823-f849b5445de4

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## 1.379 openzipkin-contrib-zipkin-go-opentracing 0.4.5

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## 1.381 netlink 0.0.0-20170802012344-

## a95659537721

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# 1.384 eapache-channels 1.1.0

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# 1.385 monochromegane-go-gitignore 0.0.0-20200626010858-205db1a8cc00

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## 1.388 goleak 1.1.10

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## 1.390 clockwork 0.2.2

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Clockwork - a clock process to replace cron

=====

Cron is non-ideal for running scheduled application tasks, especially in an app deployed to multiple machines. [More details.]([http://adam.heroku.com/past/2010/4/13/rethinking\\_cron/](http://adam.heroku.com/past/2010/4/13/rethinking_cron/))

Clockwork is a cron replacement. It runs as a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Quickstart

-----

Create clock.rb:

```
require 'clockwork'
include Clockwork

handler do |job|
 puts "Running #{job}"
end

every(10.seconds, 'frequent.job')
every(3.minutes, 'less.frequent.job')
every(1.hour, 'hourly.job')

every(1.day, 'midnight.job', :at => '00:00')
```

Run it with the clockwork binary:

```
$ clockwork clock.rb
[2010-05-25 18:16:46 -0700] Starting clock for 4 events: [frequent.job less.frequent.job hourly.job midnight.job]
[2010-05-25 18:16:46 -0700] -> frequent.job
```

Use with queueing

-----

The clock process only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as

[Delayed Job](<http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job>),  
[Beanstalk/Stalker]([http://adam.heroku.com/past/2010/4/24/beanstalk\\_a\\_simple\\_and\\_fast\\_queueing\\_backend/](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/)),  
[RabbitMQ/Minion]([http://adamblog.heroku.com/past/2009/9/28/background\\_jobs\\_with\\_rabbitmq\\_and\\_minion/](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/)),  
or  
[Resque](<http://github.com/blog/542-introducing-resque>). This design allows a simple clock process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

```
require 'stalker'

handler { |job| Stalker.enqueue(job) }

every(1.hour, 'feeds.refresh')
every(1.day, 'reminders.send', :at => '01:30')
```

Using a queueing system which doesn't require that your full application be loaded is preferable, because the clock process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment, and use per-event blocks to call DJ or Resque enqueue methods. For example, with DJ/Rails:

```
require 'config/boot'
require 'config/environment'

every(1.hour, 'feeds.refresh') { Feed.send_later(:refresh) }
every(1.day, 'reminders.send', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

Anatomy of a clock file

-----

clock.rb is standard Ruby. Since we include the Clockwork module (the clockwork binary does this automatically, or you can do it explicitly), this exposes a small DSL ("handler" and "every") to define the handler for events, and then the events themselves.

The handler typically looks like this:

```
handler { |job| enqueue_your_job(job) }
```

This block will be invoked every time an event is triggered, with the job name passed in. In most cases, you should be able to pass the job name directly through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:



```
every(5.minutes, 'thing.do')
every(1.hour, 'otherthing.do')
```

In the first line of this example, an event will be triggered once every five minutes, passing the job name 'thing.do' into the handler. The handler shown above would thus call `enqueue_your_job('thing.do')`.

You can also pass a custom block to the handler, for job queueing systems that rely on classes rather than job names (i.e. DJ and Resque). In this case, you need not define a general event handler, and instead provide one with each event:

```
every(5.minutes,
'thing.do') { Thing.send_later(:do) }
```

If you provide a custom handler for the block, the job name is used only for logging.

You can also use blocks to do more complex checks:

```
every(1.day, 'check.leap.year') do
 Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
end
```

In production

-----

Only one clock process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

- \* App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
- \* App server 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock process running the same way you keep your web and workers running.

Meta

----

Created by Adam Wiggins

Inspired by [rufus-scheduler](<http://rufus.rubyforge.org/rufus-scheduler/>) and [<http://github.com/bvandenbos/resque-scheduler>](resque-scehduler)

Design

assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan

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<http://github.com/adamwiggins/clockwork>

Found in path(s):

\* /opt/cola/permits/1213082843\_1634008352.31/0/clockwork-0-2-2-1-gem/data-tar-gz/README.md

## 1.391 go-uber-org-multierr 1.4.0

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## 1.410 lumberjack 2.0.0

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## 1.411 gopkg.in-yaml 2.3.0

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## 1.418 niemeyer-pretty 0.0.0-20200227124842-a10e7caefd8e

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# 1.419 trylock 0.0.0-20160524210250-5d1441de6705

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# 1.421 sarama 1.23.1

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procfs provides functions to retrieve system, kernel and process  
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# 20210130063903-47dfef350d96

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## 1.428 go-farm 0.0.0-20200201041132-a6ae2369ad13

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## 1.429 k-sone-critbitgo 1.4.0

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## 1.430 prometheus-procfs 0.5.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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# 1.431 cheggaaa-pb 1.0.28

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## 1.432 go.etcd.io-bbolt 1.3.6

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## 1.433 grpc-websocket-proxy 0.0.0-

## 20201229170055-e5319fda7802

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# 1.434 python-pip 21.3.1

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
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2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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# 1.437 prometheus-procfs 0.7.2

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## 1.441 pkg-sftp 1.13.4

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# 1.445 go-sysconf 0.3.7

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## 1.446 importlib-resources 5.4.0

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```
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gz/KhronosGroup-glslang-5798d23/SPIRV/bitutils.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
gz/KhronosGroup-glslang-5798d23/SPIRV/hex_float.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
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```

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```

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* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/preprocessor/PpAtom.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/preprocessor/PpTokens.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/preprocessor/PpScanner.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/preprocessor/PpContext.h
*
```

```
/opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/preprocessor/PpContext.cpp
```

```
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/preprocessor/PpTokens.cpp
```

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```
/* Bison implementation for Yacc-like parsers in C
```

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gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/glslang\_tab.cpp  
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```
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//

/**
 * This is bison grammar and productions for parsing all versions of the
 * GLSL shading languages.
 */
% {

/* Based on:
```

## ANSI C Yacc grammar

In 1985, Jeff Lee published his Yacc grammar (which is accompanied by a matching Lex specification) for the April 30, 1985 draft version of the ANSI C standard. Tom Stockfisch reposted it to net.sources in 1987; that original, as mentioned in the answer to question 17.25 of the comp.lang.c FAQ, can be ftp'ed from ftp.uu.net, file usenet/net.sources/ansi.c.grammar.Z.

I intend to keep this version as close to the current C Standard grammar as possible; please let me know if you discover discrepancies.

Jutta Degener, 1995

\*/

```
#include "SymbolTable.h"
#include "ParseHelper.h"
#include "../Public/ShaderLang.h"
#include "attribute.h"
```

```
using namespace glslang;
```

```
% }
```

```
%define parse.error verbose
```

```
%union {
 struct {
 glslang::TSourceLoc loc;
 union {
 glslang::TString *string;
 int i;
 unsigned int u;
 long long i64;
 unsigned long long u64;
 bool b;
 double d;
 };
 glslang::TSymbol* symbol;
 } lex;
 struct {
 glslang::TSourceLoc loc;
 glslang::TOperator op;
 union
 {
 TIntermNode* intermNode;
 glslang::TIntermNodePair nodePair;
 glslang::TIntermTyped* intermTypedNode;
 }
}
```

```

 gslang::TAttributes* attributes;
};
union {
 gslang::TPublicType type;
 gslang::TFunction* function;
 gslang::TParameter param;
 gslang::TTypeLoc typeLine;
 gslang::TTypeList* typeList;
 gslang::TArraySizes* arraySizes;
 gslang::TIdentifierList* identifierList;
};
} interm;
}

%{

/* windows only pragma */
#ifdef _MSC_VER
 #pragma warning(disable : 4065)
 #pragma warning(disable : 4127)
 #pragma warning(disable : 4244)
#endif

#define parseContext (*pParseContext)
#define yyerror(context, msg) context->parserError(msg)

extern int yylex(YYSTYPE*, TParseContext&);

% }

%parse-param {gslang::TParseContext* pParseContext}
%lex-param {parseContext}
%pure-parser // enable thread safety
%expect 1 // One shift reduce
conflict because of if | else

%token <lex> ATTRIBUTE VARYING
%token <lex> FLOAT16_T FLOAT FLOAT32_T DOUBLE FLOAT64_T
%token <lex> CONST BOOL INT UINT INT64_T UINT64_T INT32_T UINT32_T INT16_T UINT16_T INT8_T
UINT8_T
%token <lex> BREAK CONTINUE DO ELSE FOR IF DISCARD RETURN SWITCH CASE DEFAULT
SUBROUTINE
%token <lex> BVEC2 BVEC3 BVEC4
%token <lex> IVEC2 IVEC3 IVEC4
%token <lex> UVEC2 UVEC3 UVEC4
%token <lex> I64VEC2 I64VEC3 I64VEC4
%token <lex> U64VEC2 U64VEC3 U64VEC4
%token <lex> I32VEC2 I32VEC3 I32VEC4

```

```

%token <lex> U32VEC2 U32VEC3 U32VEC4
%token <lex> I16VEC2 I16VEC3 I16VEC4
%token <lex> U16VEC2 U16VEC3 U16VEC4
%token <lex> I8VEC2 I8VEC3 I8VEC4
%token <lex> U8VEC2 U8VEC3 U8VEC4
%token <lex> VEC2 VEC3 VEC4
%token <lex> MAT2 MAT3 MAT4 CENTROID IN OUT INOUT
%token <lex> UNIFORM PATCH SAMPLE BUFFER SHARED
%token <lex> COHERENT VOLATILE RESTRICT READONLY WRITEONLY
%token <lex> DVEC2 DVEC3 DVEC4 DMAT2 DMAT3 DMAT4
%token <lex> F16VEC2 F16VEC3 F16VEC4 F16MAT2 F16MAT3 F16MAT4
%token <lex>
F32VEC2 F32VEC3 F32VEC4 F32MAT2 F32MAT3 F32MAT4
%token <lex> F64VEC2 F64VEC3 F64VEC4 F64MAT2 F64MAT3 F64MAT4
%token <lex> NOPERSPECTIVE FLAT SMOOTH LAYOUT __EXPLICITINTERPAMD

%token <lex> MAT2X2 MAT2X3 MAT2X4
%token <lex> MAT3X2 MAT3X3 MAT3X4
%token <lex> MAT4X2 MAT4X3 MAT4X4
%token <lex> DMAT2X2 DMAT2X3 DMAT2X4
%token <lex> DMAT3X2 DMAT3X3 DMAT3X4
%token <lex> DMAT4X2 DMAT4X3 DMAT4X4
%token <lex> F16MAT2X2 F16MAT2X3 F16MAT2X4
%token <lex> F16MAT3X2 F16MAT3X3 F16MAT3X4
%token <lex> F16MAT4X2 F16MAT4X3 F16MAT4X4
%token <lex> F32MAT2X2 F32MAT2X3 F32MAT2X4
%token <lex> F32MAT3X2 F32MAT3X3 F32MAT3X4
%token <lex> F32MAT4X2 F32MAT4X3 F32MAT4X4
%token <lex> F64MAT2X2 F64MAT2X3 F64MAT2X4
%token <lex> F64MAT3X2 F64MAT3X3 F64MAT3X4
%token <lex> F64MAT4X2 F64MAT4X3 F64MAT4X4
%token <lex> ATOMIC_UINT

// combined image/sampler
%token <lex> SAMPLER1D SAMPLER2D SAMPLER3D SAMPLERCUBE SAMPLER1DSHADOW
SAMPLER2DSHADOW
%token <lex> SAMPLERCUBESHADOW SAMPLER1DARRAY SAMPLER2DARRAY
SAMPLER1DARRAYSHADOW
%token
<lex> SAMPLER2DARRAYSHADOW ISAMPLER1D ISAMPLER2D ISAMPLER3D ISAMPLERCUBE
%token <lex> ISAMPLER1DARRAY ISAMPLER2DARRAY USAMPLER1D USAMPLER2D USAMPLER3D
%token <lex> USAMPLERCUBE USAMPLER1DARRAY USAMPLER2DARRAY
%token <lex> SAMPLER2DRECT SAMPLER2DRECTSHADOW ISAMPLER2DRECT USAMPLER2DRECT
%token <lex> SAMPLERBUFFER ISAMPLERBUFFER USAMPLERBUFFER
%token <lex> SAMPLERCUBEARRAY SAMPLERCUBEARRAYSHADOW
%token <lex> ISAMPLERCUBEARRAY USAMPLERCUBEARRAY
%token <lex> SAMPLER2DMS ISAMPLER2DMS USAMPLER2DMS
%token <lex> SAMPLER2DMSARRAY ISAMPLER2DMSARRAY USAMPLER2DMSARRAY

```

```

%token <lex> SAMPLEREXTERNALOES

%token <lex> F16SAMPLER1D F16SAMPLER2D F16SAMPLER3D F16SAMPLER2DRECT
F16SAMPLERCUBE
%token <lex> F16SAMPLER1DARRAY F16SAMPLER2DARRAY F16SAMPLERCUBEARRAY
%token <lex> F16SAMPLERBUFFER F16SAMPLER2DMS F16SAMPLER2DMSARRAY
%token <lex> F16SAMPLER1DSHADOW F16SAMPLER2DSHADOW F16SAMPLER1DARRAYSHADOW
F16SAMPLER2DARRAYSHADOW
%token <lex> F16SAMPLER2DRECTSHADOW F16SAMPLERCUBESHADOW
F16SAMPLERCUBEARRAYSHADOW

//
pure sampler
%token <lex> SAMPLER SAMPLERSHADOW

// texture without sampler
%token <lex> TEXTURE1D TEXTURE2D TEXTURE3D TEXTURECUBE
%token <lex> TEXTURE1DARRAY TEXTURE2DARRAY
%token <lex> ITEXTURE1D ITEXTURE2D ITEXTURE3D ITEXTURECUBE
%token <lex> ITEXTURE1DARRAY ITEXTURE2DARRAY UTEXTURE1D UTEXTURE2D UTEXTURE3D
%token <lex> UTEXTURECUBE UTEXTURE1DARRAY UTEXTURE2DARRAY
%token <lex> TEXTURE2DRECT ITEXTURE2DRECT UTEXTURE2DRECT
%token <lex> TEXTUREBUFFER ITEXTUREBUFFER UTEXTUREBUFFER
%token <lex> TEXTURECUBEARRAY ITEXTURECUBEARRAY UTEXTURECUBEARRAY
%token <lex> TEXTURE2DMS ITEXTURE2DMS UTEXTURE2DMS
%token <lex> TEXTURE2DMSARRAY ITEXTURE2DMSARRAY UTEXTURE2DMSARRAY

%token <lex> F16TEXTURE1D F16TEXTURE2D F16TEXTURE3D F16TEXTURE2DRECT
F16TEXTURECUBE
%token <lex> F16TEXTURE1DARRAY F16TEXTURE2DARRAY F16TEXTURECUBEARRAY
%token <lex> F16TEXTUREBUFFER F16TEXTURE2DMS F16TEXTURE2DMSARRAY

// input attachments
%token <lex> SUBPASSINPUT SUBPASSINPUTMS ISUBPASSINPUT ISUBPASSINPUTMS
USUBPASSINPUT USUBPASSINPUTMS
%token
<lex> F16SUBPASSINPUT F16SUBPASSINPUTMS

%token <lex> IMAGE1D IIMAGE1D UIMAGE1D IMAGE2D IIMAGE2D
%token <lex> UIMAGE2D IMAGE3D IIMAGE3D UIMAGE3D
%token <lex> IMAGE2DRECT IIMAGE2DRECT UIMAGE2DRECT
%token <lex> IMAGECUBE IIMAGECUBE UIMAGECUBE
%token <lex> IMAGEBUFFER IIMAGEBUFFER UIMAGEBUFFER
%token <lex> IMAGE1DARRAY IIMAGE1DARRAY UIMAGE1DARRAY
%token <lex> IMAGE2DARRAY IIMAGE2DARRAY UIMAGE2DARRAY
%token <lex> IMAGECUBEARRAY IIMAGECUBEARRAY UIMAGECUBEARRAY
%token <lex> IMAGE2DMS IIMAGE2DMS UIMAGE2DMS
%token <lex> IMAGE2DMSARRAY IIMAGE2DMSARRAY UIMAGE2DMSARRAY

```



```

%token <lex> F16IMAGE1D F16IMAGE2D F16IMAGE3D F16IMAGE2DRECT
%token <lex> F16IMAGECUBE F16IMAGE1DARRAY F16IMAGE2DARRAY F16IMAGECUBEARRAY
%token <lex> F16IMAGEBUFFER F16IMAGE2DMS F16IMAGE2DMSARRAY

%token <lex> STRUCT VOID WHILE

%token <lex> IDENTIFIER TYPE_NAME
%token <lex> FLOATCONSTANT DOUBLECONSTANT INT16CONSTANT UINT16CONSTANT
INT32CONSTANT UINT32CONSTANT INTCONSTANT UINTCONSTANT INT64CONSTANT
UINT64CONSTANT
BOOLCONSTANT FLOAT16CONSTANT
%token <lex> LEFT_OP RIGHT_OP
%token <lex> INC_OP DEC_OP LE_OP GE_OP EQ_OP NE_OP
%token <lex> AND_OP OR_OP XOR_OP MUL_ASSIGN DIV_ASSIGN ADD_ASSIGN
%token <lex> MOD_ASSIGN LEFT_ASSIGN RIGHT_ASSIGN AND_ASSIGN XOR_ASSIGN OR_ASSIGN
%token <lex> SUB_ASSIGN

%token <lex> LEFT_PAREN RIGHT_PAREN LEFT_BRACKET RIGHT_BRACKET LEFT_BRACE
RIGHT_BRACE DOT
%token <lex> COMMA COLON EQUAL SEMICOLON BANG DASH TILDE PLUS STAR SLASH PERCENT
%token <lex> LEFT_ANGLE RIGHT_ANGLE VERTICAL_BAR CARET AMPERSAND QUESTION

%token <lex> INVARIANT PRECISE
%token <lex> HIGH_PRECISION MEDIUM_PRECISION LOW_PRECISION PRECISION

%token <lex> PACKED RESOURCE SUPERP

%type <interm> assignment_operator unary_operator
%type <interm.intermTypedNode> variable_identifier primary_expression postfix_expression
%type <interm.intermTypedNode> expression integer_expression assignment_expression
%type <interm.intermTypedNode> unary_expression multiplicative_expression additive_expression
%type <interm.intermTypedNode>
relational_expression equality_expression
%type <interm.intermTypedNode> conditional_expression constant_expression
%type <interm.intermTypedNode> logical_or_expression logical_xor_expression logical_and_expression
%type <interm.intermTypedNode> shift_expression and_expression exclusive_or_expression
inclusive_or_expression
%type <interm.intermTypedNode> function_call initializer initializer_list condition conditionopt

%type <interm.intermNode> translation_unit function_definition
%type <interm.intermNode> statement simple_statement
%type <interm.intermNode> statement_list switch_statement_list compound_statement
%type <interm.intermNode> declaration_statement selection_statement selection_statement_nonattributed
expression_statement
%type <interm.intermNode> switch_statement switch_statement_nonattributed case_label
%type <interm.intermNode> declaration external_declaration
%type <interm.intermNode> for_init_statement compound_statement_no_new_scope

```

```

%type <interm.nodePair>
 selection_rest_statement for_rest_statement
%type <interm.intermNode> iteration_statement iteration_statement_nonattributed jump_statement
statement_no_new_scope statement_scoped
%type <interm> single_declaration init_declarator_list

%type <interm> parameter_declaration parameter_declarator parameter_type_specifier

%type <interm> array_specifier
%type <interm.type> precise_qualifier invariant_qualifier interpolation_qualifier storage_qualifier
precision_qualifier
%type <interm.type> layout_qualifier layout_qualifier_id_list layout_qualifier_id

%type <interm.type> type_qualifier fully_specified_type type_specifier
%type <interm.type> single_type_qualifier
%type <interm.type> type_specifier_nonarray
%type <interm.type> struct_specifier
%type <interm.typeLine> struct_declarator
%type <interm.typeList> struct_declarator_list struct_declaration struct_declaration_list type_name_list
%type <interm> block_structure
%type <interm.function> function_header function_declarator
%type <interm.function>
 function_header_with_parameters
%type <interm> function_call_header_with_parameters function_call_header_no_parameters function_call_generic
function_prototype
%type <interm> function_call_or_method function_identifier function_call_header

%type <interm.identifierList> identifier_list

%type <interm.attributes> attribute attribute_list single_attribute

%start translation_unit
%%

variable_identifier
 : IDENTIFIER {
 $$ = parseContext.handleVariable($1.loc, $1.symbol, $1.string);
 }
 ;

primary_expression
 : variable_identifier {
 $$ = $1;
 }
 | INT32CONSTANT {
 parseContext.explicitInt32Check($1.loc, "32-bit signed literal");
 $$ = parseContext.intermediate.addConstantUnion($1.i, $1.loc, true);
 }

```

```

| UINT32CONSTANT {
 parseContext.explicitInt32Check($1.loc, "32-bit signed literal");
 $$ = parseContext.intermediate.addConstantUnion($1.u, $1.loc, true);
}
| INTCONSTANT {
 $$ = parseContext.intermediate.addConstantUnion($1.i,
$1.loc, true);
}
| UINTCONSTANT {
 parseContext.fullIntegerCheck($1.loc, "unsigned literal");
 $$ = parseContext.intermediate.addConstantUnion($1.u, $1.loc, true);
}
| INT64CONSTANT {
 parseContext.int64Check($1.loc, "64-bit integer literal");
 $$ = parseContext.intermediate.addConstantUnion($1.i64, $1.loc, true);
}
| UINT64CONSTANT {
 parseContext.int64Check($1.loc, "64-bit unsigned integer literal");
 $$ = parseContext.intermediate.addConstantUnion($1.u64, $1.loc, true);
}
| INT16CONSTANT {
 parseContext.explicitInt16Check($1.loc, "16-bit integer literal");
 $$ = parseContext.intermediate.addConstantUnion((short)$1.i, $1.loc, true);
}
| UINT16CONSTANT {
 parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer literal");
 $$ = parseContext.intermediate.addConstantUnion((unsigned short)$1.u, $1.loc, true);
}
| FLOATCONSTANT {
 $$ = parseContext.intermediate.addConstantUnion($1.d, EbtFloat, $1.loc, true);
}
| DOUBLECONSTANT {
 parseContext.doubleCheck($1.loc, "double literal");
 $$ = parseContext.intermediate.addConstantUnion($1.d, EbtDouble, $1.loc, true);
}
| FLOAT16CONSTANT {
 parseContext.float16Check($1.loc, "half float literal");
 $$ = parseContext.intermediate.addConstantUnion($1.d, EbtFloat16, $1.loc, true);
}
| BOOLCONSTANT {
 $$ = parseContext.intermediate.addConstantUnion($1.b, $1.loc, true);
}
| LEFT_PAREN expression RIGHT_PAREN {
 $$ = $2;
 if ($$->getAsConstantUnion())
 $$->getAsConstantUnion()->setExpression();
}
;

```

```

postfix_expression
: primary_expression {
 $$ = $1;
}
| postfix_expression LEFT_BRACKET integer_expression RIGHT_BRACKET {
 $$ = parseContext.handleBracketDereference($2.loc, $1, $3);
}
| function_call {
 $$ = $1;
}
| postfix_expression
DOT IDENTIFIER {
 $$ = parseContext.handleDotDereference($3.loc, $1, *$3.string);
}
| postfix_expression INC_OP {
 parseContext.variableCheck($1);
 parseContext.IValueErrorCheck($2.loc, "++", $1);
 $$ = parseContext.handleUnaryMath($2.loc, "++", EOpPostIncrement, $1);
}
| postfix_expression DEC_OP {
 parseContext.variableCheck($1);
 parseContext.IValueErrorCheck($2.loc, "--", $1);
 $$ = parseContext.handleUnaryMath($2.loc, "--", EOpPostDecrement, $1);
}
;

```

```

integer_expression
: expression {
 parseContext.integerCheck($1, "[]");
 $$ = $1;
}
;

```

```

function_call
: function_call_or_method {
 $$ = parseContext.handleFunctionCall($1.loc, $1.function, $1.intermNode);
 delete $1.function;
}
;

```

```

function_call_or_method
: function_call_generic {
 $$ = $1;
}
;

```

```

function_call_generic

```

```

: function_call_header_with_parameters RIGHT_PAREN {
 $$ =
$1;
 $$loc = $2.loc;
}
| function_call_header_no_parameters RIGHT_PAREN {
 $$ = $1;
 $$loc = $2.loc;
}
;

function_call_header_no_parameters
: function_call_header VOID {
 $$ = $1;
}
| function_call_header {
 $$ = $1;
}
;

function_call_header_with_parameters
: function_call_header assignment_expression {
 TParameter param = { 0, new TType };
 param.type->shallowCopy($2->getType());
 $1.function->addParameter(param);
 $$function = $1.function;
 $$intermNode = $2;
}
| function_call_header_with_parameters COMMA assignment_expression {
 TParameter param = { 0, new TType };
 param.type->shallowCopy($3->getType());
 $1.function->addParameter(param);
 $$function = $1.function;
 $$intermNode = parseContext.intermediate.growAggregate($1.intermNode, $3, $2.loc);
}
;

function_call_header
: function_identifier LEFT_PAREN {

 $$ = $1;
}
;

// Grammar Note: Constructors look like functions, but are recognized as types.

function_identifier
: type_specifier {

```

```

// Constructor
$$intermNode = 0;
$$function = parseContext.handleConstructorCall($1.loc, $1);
}
| postfix_expression {
//
// Should be a method or subroutine call, but we haven't recognized the arguments yet.
//
$$function = 0;
$$intermNode = 0;

TIntermMethod* method = $1->getAsMethodNode();
if (method) {
 $$function = new TFunction(&method->getMethodName(), TType(EbtInt), EOpArrayLength);
 $$intermNode = method->getObject();
} else {
 TIntermSymbol* symbol = $1->getAsSymbolNode();
 if (symbol) {
 parseContext.reservedErrorCheck(symbol->getLoc(), symbol->getName());
 TFunction *function = new TFunction(&symbol->getName(), TType(EbtVoid));
 $$function
= function;
 } else
 parseContext.error($1->getLoc(), "function call, method, or subroutine call expected", "", "");
 }

if ($$function == 0) {
 // error recover
 TString empty("");
 $$function = new TFunction(&empty, TType(EbtVoid), EOpNull);
}
}
;

unary_expression
: postfix_expression {
 parseContext.variableCheck($1);
 $$ = $1;
 if (TIntermMethod* method = $1->getAsMethodNode())
 parseContext.error($1->getLoc(), "incomplete method syntax", method->getMethodName().c_str(), "");
}
| INC_OP unary_expression {
 parseContext.IValueErrorCheck($1.loc, "+", $2);
 $$ = parseContext.handleUnaryMath($1.loc, "+", EOpPreIncrement, $2);
}
| DEC_OP unary_expression {
 parseContext.IValueErrorCheck($1.loc, "--", $2);
 $$ = parseContext.handleUnaryMath($1.loc, "--", EOpPreDecrement, $2);
}

```

```

}
| unary_operator unary_expression
{
 if ($1.op != EOpNull) {
 char errorOp[2] = {0, 0};
 switch($1.op) {
 case EOpNegative: errorOp[0] = '-'; break;
 case EOpLogicalNot: errorOp[0] = '!'; break;
 case EOpBitwiseNot: errorOp[0] = '~'; break;
 default: break; // some compilers want this
 }
 $$ = parseContext.handleUnaryMath($1.loc, errorOp, $1.op, $2);
 } else {
 $$ = $2;
 if ($$->getAsConstantUnion())
 $$->getAsConstantUnion()->setExpression();
 }
}
;

```

// Grammar Note: No traditional style type casts.

```

unary_operator
: PLUS { $$loc = $1.loc; $.op = EOpNull; }
| DASH { $$loc = $1.loc; $.op = EOpNegative; }
| BANG { $$loc = $1.loc; $.op = EOpLogicalNot; }
| TILDE { $$loc = $1.loc; $.op = EOpBitwiseNot;
 parseContext.fullIntegerCheck($1.loc, "bitwise not"); }
;

```

// Grammar Note: No '\*' or '&' unary ops. Pointers are not supported.

```

multiplicative_expression
: unary_expression { $$ = $1; }
| multiplicative_expression STAR unary_expression {
 $$ = parseContext.handleBinaryMath($2.loc, "*", EOpMul, $1, $3);
 if ($$ == 0)
 $$ = $1;
}
| multiplicative_expression SLASH unary_expression {
 $$ = parseContext.handleBinaryMath($2.loc, "/", EOpDiv, $1, $3);
 if ($$ == 0)
 $$ = $1;
}
| multiplicative_expression PERCENT unary_expression {
 parseContext.fullIntegerCheck($2.loc, "%");
 $$ = parseContext.handleBinaryMath($2.loc, "%", EOpMod, $1, $3);
 if ($$ == 0)
 $$ = $1;
}

```

```

}
;

additive_expression
: multiplicative_expression { $$ = $1; }
| additive_expression PLUS multiplicative_expression {
 $$ = parseContext.handleBinaryMath($2.loc, "+", EOpAdd, $1, $3);
 if ($$ == 0)
 $$ = $1;
}
| additive_expression DASH multiplicative_expression {
 $$ = parseContext.handleBinaryMath($2.loc,
"-", EOpSub, $1, $3);
 if ($$ == 0)
 $$ = $1;
}
;

shift_expression
: additive_expression { $$ = $1; }
| shift_expression LEFT_OP additive_expression {
 parseContext.fullIntegerCheck($2.loc, "bit shift left");
 $$ = parseContext.handleBinaryMath($2.loc, "<<", EOpLeftShift, $1, $3);
 if ($$ == 0)
 $$ = $1;
}
| shift_expression RIGHT_OP additive_expression {
 parseContext.fullIntegerCheck($2.loc, "bit shift right");
 $$ = parseContext.handleBinaryMath($2.loc, ">>", EOpRightShift, $1, $3);
 if ($$ == 0)
 $$ = $1;
}
;

relational_expression
: shift_expression { $$ = $1; }
| relational_expression LEFT_ANGLE shift_expression {
 $$ = parseContext.handleBinaryMath($2.loc, "<", EOpLessThan, $1, $3);
 if ($$ == 0)
 $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| relational_expression RIGHT_ANGLE shift_expression
{
 $$ = parseContext.handleBinaryMath($2.loc, ">", EOpGreaterThan, $1, $3);
 if ($$ == 0)
 $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| relational_expression LE_OP shift_expression {

```



```

 $$ = parseContext.handleBinaryMath($2.loc, "<=", EOpLessThanEqual, $1, $3);
 if ($$ == 0)
 $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| relational_expression GE_OP shift_expression {
 $$ = parseContext.handleBinaryMath($2.loc, ">=", EOpGreaterThanEqual, $1, $3);
 if ($$ == 0)
 $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

equality_expression
: relational_expression { $$ = $1; }
| equality_expression EQ_OP relational_expression {
 parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
 parseContext.opaqueCheck($2.loc, $1->getType(), "=");
 parseContext.specializationCheck($2.loc,
$1->getType(), "=");
 $$ = parseContext.handleBinaryMath($2.loc, "=", EOpEqual, $1, $3);
 if ($$ == 0)
 $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| equality_expression NE_OP relational_expression {
 parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
 parseContext.opaqueCheck($2.loc, $1->getType(), "!=");
 parseContext.specializationCheck($2.loc, $1->getType(), "!=");
 $$ = parseContext.handleBinaryMath($2.loc, "!", EOpNotEqual, $1, $3);
 if ($$ == 0)
 $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

and_expression
: equality_expression { $$ = $1; }
| and_expression AMPERSAND equality_expression {
 parseContext.fullIntegerCheck($2.loc, "bitwise and");
 $$ = parseContext.handleBinaryMath($2.loc, "&", EOpAnd, $1, $3);
 if ($$ == 0)
 $$ = $1;
}
;

exclusive_or_expression
: and_expression
{ $$ = $1; }
| exclusive_or_expression CARET and_expression {
 parseContext.fullIntegerCheck($2.loc, "bitwise exclusive or");
 $$ = parseContext.handleBinaryMath($2.loc, "^", EOpExclusiveOr, $1, $3);
}
;

```

```
 if ($$ == 0)
 $$ = $1;
}
;
```

inclusive\_or\_expression

```
: exclusive_or_expression { $$ = $1; }
| inclusive_or_expression VERTICAL_BAR exclusive_or_expression {
 parseContext.fullIntegerCheck($2.loc, "bitwise inclusive or");
 $$ = parseContext.handleBinaryMath($2.loc, "|", EOpInclusiveOr, $1, $3);
 if ($$ == 0)
 $$ = $1;
}
;
```

logical\_and\_expression

```
: inclusive_or_expression { $$ = $1; }
| logical_and_expression AND_OP inclusive_or_expression {
 $$ = parseContext.handleBinaryMath($2.loc, "&&", EOpLogicalAnd, $1, $3);
 if ($$ == 0)
 $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;
```

logical\_xor\_expression

```
: logical_and_expression { $$
= $1; }
| logical_xor_expression XOR_OP logical_and_expression {
 $$ = parseContext.handleBinaryMath($2.loc, "^", EOpLogicalXor, $1, $3);
 if ($$ == 0)
 $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;
```

logical\_or\_expression

```
: logical_xor_expression { $$ = $1; }
| logical_or_expression OR_OP logical_xor_expression {
 $$ = parseContext.handleBinaryMath($2.loc, "|", EOpLogicalOr, $1, $3);
 if ($$ == 0)
 $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;
```

conditional\_expression

```
: logical_or_expression { $$ = $1; }
| logical_or_expression QUESTION {
 ++parseContext.controlFlowNestingLevel;
}
;
```

```

expression COLON assignment_expression {
 --parseContext.controlFlowNestingLevel;
 parseContext.boolCheck($2.loc, $1);
 parseContext.rValueErrorCheck($2.loc, "?", $1);
 parseContext.rValueErrorCheck($5.loc, ":", $4);
 parseContext.rValueErrorCheck($5.loc,
":", $6);
 $$ = parseContext.intermediate.addSelection($1, $4, $6, $2.loc);
 if ($$ == 0) {
 parseContext.binaryOpError($2.loc, ":", $4->getCompleteString(), $6->getCompleteString());
 $$ = $6;
 }
}
;

```

assignment\_expression

```

: conditional_expression { $$ = $1; }
| unary_expression assignment_operator assignment_expression {
 parseContext.arrayObjectCheck($2.loc, $1->getType(), "array assignment");
 parseContext.opaqueCheck($2.loc, $1->getType(), "=");
 parseContext.specializationCheck($2.loc, $1->getType(), "=");
 parseContext.IValueErrorCheck($2.loc, "assign", $1);
 parseContext.rValueErrorCheck($2.loc, "assign", $3);
 $$ = parseContext.intermediate.addAssign($2.op, $1, $3, $2.loc);
 if ($$ == 0) {
 parseContext.assignError($2.loc, "assign", $1->getCompleteString(), $3->getCompleteString());
 $$ = $1;
 }
}
;

```

assignment\_operator

```

: EQUAL {
 $$loc = $1.loc;
 $$op = EOpAssign;
}
| MUL_ASSIGN {
 $$loc = $1.loc;
 $$op = EOpMulAssign;
}
| DIV_ASSIGN {
 $$loc = $1.loc;
 $$op = EOpDivAssign;
}
| MOD_ASSIGN {
 parseContext.fullIntegerCheck($1.loc, "%=");
 $$loc = $1.loc;
 $$op = EOpModAssign;
}

```

```

}
| ADD_ASSIGN {
 $$loc = $1.loc;
 $$op = EOpAddAssign;
}
| SUB_ASSIGN {
 $$loc = $1.loc;
 $$op = EOpSubAssign;
}
| LEFT_ASSIGN {
 parseContext.fullIntegerCheck($1.loc, "bit-shift left assign");
 $$loc = $1.loc; $$op = EOpLeftShiftAssign;
}
| RIGHT_ASSIGN {
 parseContext.fullIntegerCheck($1.loc, "bit-shift right assign");
 $$loc = $1.loc; $$op = EOpRightShiftAssign;
}
| AND_ASSIGN {
 parseContext.fullIntegerCheck($1.loc, "bitwise-and assign");
 $$loc = $1.loc; $$op = EOpAndAssign;
}
| XOR_ASSIGN
{
 parseContext.fullIntegerCheck($1.loc, "bitwise-xor assign");
 $$loc = $1.loc; $$op = EOpExclusiveOrAssign;
}
| OR_ASSIGN {
 parseContext.fullIntegerCheck($1.loc, "bitwise-or assign");
 $$loc = $1.loc; $$op = EOpInclusiveOrAssign;
}
;

expression
: assignment_expression {
 $$ = $1;
}
| expression COMMA assignment_expression {
 parseContext.samplerConstructorLocationCheck($2.loc, ",", $3);
 $$ = parseContext.intermediate.addComma($1, $3, $2.loc);
 if ($$ == 0) {
 parseContext.binaryOpError($2.loc, ",", $1->getCompleteString(), $3->getCompleteString());
 $$ = $3;
 }
}
;

constant_expression
: conditional_expression {

```

```

 parseContext.constantValueCheck($1, "");
 $$ = $1;
}
;

```

declaration

```

: function_prototype SEMICOLON {
 parseContext.handleFunctionDeclarator($1.loc, *$1.function, true /* prototype */);
 $$ = 0;

// TODO: 4.0 functionality: subroutines: make the identifier a user type for this signature
}
| init_declarator_list SEMICOLON {
 if ($1.intermNode && $1.intermNode->getAsAggregate())
 $1.intermNode->getAsAggregate()->setOperator(EOpSequence);
 $$ = $1.intermNode;
}
| PRECISION precision_qualifier type_specifier SEMICOLON {
 parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "precision statement");

// lazy setting of the previous scope's defaults, has effect only the first time it is called in a particular scope
 parseContext.symbolTable.setPreviousDefaultPrecisions(&parseContext.defaultPrecision[0]);
 parseContext.setDefaultPrecision($1.loc, $3, $2.qualifier.precision);
 $$ = 0;
}
| block_structure SEMICOLON {
 parseContext.declareBlock($1.loc, *$1.typeList);
 $$ = 0;
}
| block_structure IDENTIFIER SEMICOLON {
 parseContext.declareBlock($1.loc, *$1.typeList, $2.string);
 $$ = 0;
}
| block_structure IDENTIFIER array_specifier SEMICOLON {
 parseContext.declareBlock($1.loc, *$1.typeList, $2.string, $3.arraySizes);
 $$ = 0;
}
| type_qualifier SEMICOLON {
 parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
 parseContext.updateStandaloneQualifierDefaults($1.loc, $1);
 $$ = 0;
}
| type_qualifier IDENTIFIER SEMICOLON {
 parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
 parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$2.string);
 $$ = 0;
}
| type_qualifier IDENTIFIER identifier_list SEMICOLON {

```

```

 parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
 $$->push_back($2.string);
 parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$3);
 $$ = 0;
}
;

```

block\_structure

```

: type_qualifier IDENTIFIER LEFT_BRACE { parseContext.nestedBlockCheck($1.loc); } struct_declaration_list
RIGHT_BRACE
{
 --parseContext.structNestingLevel;
 parseContext.blockName = $2.string;
 parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
 parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
 parseContext.currentBlockQualifier = $1.qualifier;
 $$loc = $1.loc;
 $$typeList = $5;
}

```

identifier\_list

```

: COMMA IDENTIFIER {
 $$ = new TIdentifierList;
 $$->push_back($2.string);
}
| identifier_list COMMA IDENTIFIER {
 $$ = $1;
 $$->push_back($3.string);
}
;

```

function\_prototype

```

: function_declarator RIGHT_PAREN {
 $$function = $1;
 $$loc = $2.loc;
}
;

```

function\_declarator

```

: function_header {
 $$ = $1;
}
| function_header_with_parameters {
 $$ = $1;
}
;

```

```

function_header_with_parameters
: function_header parameter_declaration {
 // Add the parameter
 $$ = $1;
 if ($2.param.type->getBasicType()
!= EbtVoid)
 $1->addParameter($2.param);
 else
 delete $2.param.type;
}
| function_header_with_parameters COMMA parameter_declaration {
 //
 // Only first parameter of one-parameter functions can be void
 // The check for named parameters not being void is done in parameter_declarator
 //
 if ($3.param.type->getBasicType() == EbtVoid) {
 //
 // This parameter > first is void
 //
 parseContext.error($2.loc, "cannot be an argument type except for '(void)', 'void', '');
 delete $3.param.type;
 } else {
 // Add the parameter
 $$ = $1;
 $1->addParameter($3.param);
 }
}
;

```

```

function_header
: fully_specified_type IDENTIFIER LEFT_PAREN {
 if ($1.qualifier.storage != EvqGlobal && $1.qualifier.storage != EvqTemporary) {
 parseContext.error($2.loc, "no qualifiers allowed for function return",
 GetStorageQualifierString($1.qualifier.storage, "");
 }
 if ($1.arraySizes)
 parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);

 // Add the function as a prototype after parsing it (we do not support recursion)
 TFunction *function;
 TType type($1);

 // Potentially rename shader entry point function. No-op most of the time.
 parseContext.renameShaderFunction($2.string);

 // Make the function
 function = new TFunction($2.string, type);
 $$ = function;
}

```

```

}
;

parameter_declarator
// Type + name
: type_specifier IDENTIFIER {
 if ($1.arraySizes) {
 parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
 parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
 parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
 }
 if ($1.basicType ==
EbtVoid) {
 parseContext.error($2.loc, "illegal use of type 'void'", $2.string->c_str(), "");
 }
 parseContext.reservedErrorCheck($2.loc, *$2.string);

 TParameter param = {$2.string, new TType($1)};
 $$loc = $2.loc;
 $$param = param;
}
| type_specifier IDENTIFIER array_specifier {
 if ($1.arraySizes) {
 parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
 parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
 parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
 }
 parseContext.arrayDimCheck($2.loc, $1.arraySizes, $3.arraySizes);

 parseContext.arraySizeRequiredCheck($3.loc, *$3.arraySizes);
 parseContext.reservedErrorCheck($2.loc, *$2.string);

 TParameter param = { $2.string, new TType($1)};
 parseContext.arrayDimMerge(*param.type, $3.arraySizes);

 $$loc = $2.loc;

 $$param = param;
}
;

parameter_declaration
//
// With name
//
: type_qualifier parameter_declarator {
 $$ = $2;
 if ($1.qualifier.precision != EpqNone)

```



```

 $$param.type->getQualifier().precision = $1.qualifier.precision;
 parseContext.precisionQualifierCheck($$.loc, $$param.type->getBasicType(), $$param.type->getQualifier());

 parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
 parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, *$$param.type);
 parseContext.paramCheckFix($1.loc, $1.qualifier, *$$param.type);

}
| parameter_declarator {
 $$ = $1;

 parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
 parseContext.paramCheckFix($1.loc, EvqTemporary, *$$param.type);
 parseContext.precisionQualifierCheck($$.loc, $$param.type->getBasicType(), $$param.type->getQualifier());
}
//
// Without name
//
| type_qualifier
parameter_type_specifier {
 $$ = $2;
 if ($1.qualifier.precision != EpqNone)
 $$param.type->getQualifier().precision = $1.qualifier.precision;
 parseContext.precisionQualifierCheck($1.loc, $$param.type->getBasicType(), $$param.type->getQualifier());

 parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
 parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, *$$param.type);
 parseContext.paramCheckFix($1.loc, $1.qualifier, *$$param.type);
}
| parameter_type_specifier {
 $$ = $1;

 parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
 parseContext.paramCheckFix($1.loc, EvqTemporary, *$$param.type);
 parseContext.precisionQualifierCheck($$.loc, $$param.type->getBasicType(), $$param.type->getQualifier());
}
;

parameter_type_specifier
: type_specifier {
 TParameter param = { 0, new TType($1) };
 $$param = param;
 if ($1.arraySizes)
 parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
}
;

init_declarator_list

```

```

: single_declaration {
 $$ = $1;
}
| init_declarator_list COMMA IDENTIFIER {
 $$ = $1;
 parseContext.declareVariable($3.loc, *$3.string, $1.type);
}
| init_declarator_list COMMA IDENTIFIER array_specifier {
 $$ = $1;
 parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes);
}
| init_declarator_list COMMA IDENTIFIER array_specifier EQUAL initializer {
 $$.type = $1.type;
 TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes, $6);
 $$.intermNode = parseContext.intermediate.growAggregate($1.intermNode, initNode, $5.loc);
}
| init_declarator_list COMMA IDENTIFIER EQUAL initializer {
 $$.type = $1.type;
 TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, 0, $5);
 $$.intermNode = parseContext.intermediate.growAggregate($1.intermNode,
initNode, $4.loc);
}
;

```

single\_declaration

```

: fully_specified_type {
 $$.type = $1;
 $$.intermNode = 0;
 parseContext.declareTypeDefaults($$.loc, $$.type);
}
| fully_specified_type IDENTIFIER {
 $$.type = $1;
 $$.intermNode = 0;
 parseContext.declareVariable($2.loc, *$2.string, $1);
}
| fully_specified_type IDENTIFIER array_specifier {
 $$.type = $1;
 $$.intermNode = 0;
 parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes);
}
| fully_specified_type IDENTIFIER array_specifier EQUAL initializer {
 $$.type = $1;
 TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes, $5);
 $$.intermNode = parseContext.intermediate.growAggregate(0, initNode, $4.loc);
}
| fully_specified_type IDENTIFIER EQUAL initializer {
 $$.type = $1;
 TIntermNode* initNode = parseContext.declareVariable($2.loc,

```

```

*$2.string, $1, 0, $4);
 $$intermNode = parseContext.intermediate.growAggregate(0, initNode, $3.loc);
}

// Grammar Note: No 'enum', or 'typedef'.

fully_specified_type
: type_specifier {
 $$ = $1;

 parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $$);
 if ($1.arraySizes) {
 parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
 parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
 }

 parseContext.precisionQualifierCheck($$.loc, $$.basicType, $$.qualifier);
}
| type_qualifier type_specifier {
 parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
 parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $2);

 if ($2.arraySizes) {
 parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
 parseContext.profileRequires($2.loc,
EEsProfile, 300, 0, "arrayed type");
 }

 if ($2.arraySizes && parseContext.arrayQualifierError($2.loc, $1.qualifier))
 $2.arraySizes = 0;

 parseContext.checkNoShaderLayouts($2.loc, $1.shaderQualifiers);
 $2.shaderQualifiers.merge($1.shaderQualifiers);
 parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
 parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

 $$ = $2;

 if (! $$qualifier.isInterpolation() &&
 ((parseContext.language == EShLangVertex && $$qualifier.storage == EvqVaryingOut) ||
 (parseContext.language == EShLangFragment && $$qualifier.storage == EvqVaryingIn)))
 $$qualifier.smooth = true;
}
;

invariant_qualifier
: INVARIANT {
 parseContext.globalCheck($1.loc, "invariant");
}

```

```

 parseContext.profileRequires($$.loc, ENoProfile, 120, 0, "invariant");
 $$.$init($$.loc);
 $$.$qualifier.invariant
= true;
}
;

interpolation_qualifier
: SMOOTH {
 parseContext.globalCheck($$.loc, "smooth");
 parseContext.profileRequires($$.loc, ENoProfile, 130, 0, "smooth");
 parseContext.profileRequires($$.loc, EEsProfile, 300, 0, "smooth");
 $$.$init($$.loc);
 $$.$qualifier.smooth = true;
}
| FLAT {
 parseContext.globalCheck($$.loc, "flat");
 parseContext.profileRequires($$.loc, ENoProfile, 130, 0, "flat");
 parseContext.profileRequires($$.loc, EEsProfile, 300, 0, "flat");
 $$.$init($$.loc);
 $$.$qualifier.flat = true;
}
| NOPERSPECTIVE {
 parseContext.globalCheck($$.loc, "noperspective");
 parseContext.requireProfile($$.loc, ~EEsProfile, "noperspective");
 parseContext.profileRequires($$.loc, ENoProfile, 130, 0, "noperspective");
 $$.$init($$.loc);
 $$.$qualifier.nopersp = true;
}
| __EXPLICITINTERPAMD {
#ifdef AMD_EXTENSIONS
 parseContext.globalCheck($$.loc,
 "__explicitInterpAMD");
 parseContext.profileRequires($$.loc, ECoreProfile, 450, E_GL_AMD_shader_explicit_vertex_parameter,
 "explicit interpolation");
 parseContext.profileRequires($$.loc, ECompatibilityProfile, 450,
 E_GL_AMD_shader_explicit_vertex_parameter, "explicit interpolation");
 $$.$init($$.loc);
 $$.$qualifier.explicitInterp = true;
#endif
}
;

layout_qualifier
: LAYOUT LEFT_PAREN layout_qualifier_id_list RIGHT_PAREN {
 $$ = $3;
}
;

```

```

layout_qualifier_id_list
: layout_qualifier_id {
 $$ = $1;
}
| layout_qualifier_id_list COMMA layout_qualifier_id {
 $$ = $1;
 $$.shaderQualifiers.merge($3.shaderQualifiers);
 parseContext.mergeObjectLayoutQualifiers($$.qualifier, $3.qualifier, false);
}

layout_qualifier_id
: IDENTIFIER {
 $$.$init($1.loc);
 parseContext.setLayoutQualifier($1.loc, $$, *$1.string);
}
| IDENTIFIER EQUAL constant_expression
{
 $$.$init($1.loc);
 parseContext.setLayoutQualifier($1.loc, $$, *$1.string, $3);
}
| SHARED { // because "shared" is both an identifier and a keyword
 $$.$init($1.loc);
 TString strShared("shared");
 parseContext.setLayoutQualifier($1.loc, $$, strShared);
}
;

precise_qualifier
: PRECISE {
 parseContext.profileRequires($$.loc, ECoreProfile | ECompatibilityProfile, 400, E_GL_ARB_gpu_shader5,
"precise");
 parseContext.profileRequires($1.loc, EEsProfile, 320, Num_AEP_gpu_shader5, AEP_gpu_shader5, "precise");
 $$.$init($1.loc);
 $$.$qualifier.noContraction = true;
}
;

type_qualifier
: single_type_qualifier {
 $$ = $1;
}
| type_qualifier single_type_qualifier {
 $$ = $1;
 if ($$.basicType == EbtVoid)
 $$.$basicType = $2.$basicType;

 $$.$shaderQualifiers.merge($2.$shaderQualifiers);
}

```

```

 parseContext.mergeQualifiers($$.loc, $$ qualifier, $2.qualifier, false);
 }
;

single_type_qualifier
: storage_qualifier {
 $$ = $1;
}
| layout_qualifier {
 $$ = $1;
}
| precision_qualifier {
 parseContext.checkPrecisionQualifier($1.loc, $1.qualifier.precision);
 $$ = $1;
}
| interpolation_qualifier {
 // allow inheritance of storage qualifier from block declaration
 $$ = $1;
}
| invariant_qualifier {
 // allow inheritance of storage qualifier from block declaration
 $$ = $1;
}
| precise_qualifier {
 // allow inheritance of storage qualifier from block declaration
 $$ = $1;
}
;

storage_qualifier
: CONST {
 $$.init($1.loc);
 $$.qualifier.storage = EvqConst; // will later turn into EvqConstReadOnly, if the initializer is not constant
}
| ATTRIBUTE {
 parseContext.requireStage($1.loc, EShLangVertex, "attribute");
 parseContext.checkDeprecated($1.loc, ECoreProfile, 130, "attribute");

 parseContext.checkDeprecated($1.loc, ENoProfile, 130, "attribute");
 parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, "attribute");
 parseContext.requireNotRemoved($1.loc, EEsProfile, 300, "attribute");

 parseContext.globalCheck($1.loc, "attribute");

 $$.init($1.loc);
 $$.qualifier.storage = EvqVaryingIn;
}
| VARYING {

```

```

parseContext.checkDeprecated($1.loc, ENoProfile, 130, "varying");
parseContext.checkDeprecated($1.loc, ECoreProfile, 130, "varying");
parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, "varying");
parseContext.requireNotRemoved($1.loc, EEsProfile, 300, "varying");

parseContext.globalCheck($1.loc, "varying");

$$init($1.loc);
if (parseContext.language == EShLangVertex)
 $$qualifier.storage = EvqVaryingOut;
else
 $$qualifier.storage = EvqVaryingIn;
}
| INOUT {
 parseContext.globalCheck($1.loc, "inout");
 $$init($1.loc);
 $$qualifier.storage = EvqInOut;
}
| IN {
 parseContext.globalCheck($1.loc, "in");
 $$init($1.loc);
 // whether this is a parameter "in" or a pipeline "in" will get sorted out a bit later
 $$qualifier.storage = EvqIn;
}
| OUT {
 parseContext.globalCheck($1.loc, "out");
 $$init($1.loc);
 // whether this is a parameter "out" or a pipeline "out" will get sorted out a bit later
 $$qualifier.storage = EvqOut;
}
| CENTROID {
 parseContext.profileRequires($1.loc, ENoProfile, 120, 0, "centroid");
 parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "centroid");
 parseContext.globalCheck($1.loc, "centroid");
 $$init($1.loc);
 $$qualifier.centroid = true;
}
| PATCH {
 parseContext.globalCheck($1.loc, "patch");
 parseContext.requireStage($1.loc, (EShLanguageMask)(EShLangTessControlMask |
EShLangTessEvaluationMask), "patch");
 $$init($1.loc);
 $$qualifier.patch = true;
}
| SAMPLE {
 parseContext.globalCheck($1.loc, "sample");
 $$init($1.loc);
 $$qualifier.sample = true;
}

```

```

}
| UNIFORM {
 parseContext.globalCheck($1.loc, "uniform");
 $$.$init($1.loc);
 $$.$qualifier.storage = EvqUniform;
}
| BUFFER {
 parseContext.globalCheck($1.loc, "buffer");
 $$.$init($1.loc);
 $$.$qualifier.storage = EvqBuffer;
}
| SHARED {
 parseContext.globalCheck($1.loc, "shared");
 parseContext.profileRequires($1.loc, ECoreProfile | ECompatibilityProfile, 430, E_GL_ARB_compute_shader,
"shared");
 parseContext.profileRequires($1.loc, EEsProfile, 310, 0, "shared");
 parseContext.requireStage($1.loc, EShLangCompute, "shared");
 $$.$init($1.loc);
 $$.$qualifier.storage = EvqShared;
}
| COHERENT {
 $$.$init($1.loc);
 $$.$qualifier.coherent = true;
}
| VOLATILE
{
 $$.$init($1.loc);
 $$.$qualifier.volatil = true;
}
| RESTRICT {
 $$.$init($1.loc);
 $$.$qualifier.restrict = true;
}
| READONLY {
 $$.$init($1.loc);
 $$.$qualifier.readonly = true;
}
| WRITEONLY {
 $$.$init($1.loc);
 $$.$qualifier.writeonly = true;
}
| SUBROUTINE {
 parseContext.spvRemoved($1.loc, "subroutine");
 parseContext.globalCheck($1.loc, "subroutine");
 parseContext.unimplemented($1.loc, "subroutine");
 $$.$init($1.loc);
}
| SUBROUTINE LEFT_PAREN type_name_list RIGHT_PAREN {

```



```

 parseContext.spvRemoved($1.loc, "subroutine");
 parseContext.globalCheck($1.loc, "subroutine");
 parseContext.unimplemented($1.loc, "subroutine");
 $$.$init($1.loc);
}
;

type_name_list
: IDENTIFIER {
 // TODO
}
| type_name_list COMMA IDENTIFIER {
 // TODO: 4.0 semantics: subroutines
 // 1) make sure each identifier is a type
 declared earlier with SUBROUTINE
 // 2) save all of the identifiers for future comparison with the declared function
}
;

type_specifier
: type_specifier_nonarray {
 $$ = $1;
 $$.$qualifier.precision = parseContext.getDefaultPrecision($$);
}
| type_specifier_nonarray array_specifier {
 parseContext.arrayDimCheck($2.loc, $2.arraySizes, 0);
 $$ = $1;
 $$.$qualifier.precision = parseContext.getDefaultPrecision($$);
 $$.$arraySizes = $2.arraySizes;
}
;

array_specifier
: LEFT_BRACKET RIGHT_BRACKET {
 $$.$loc = $1.$loc;
 $$.$arraySizes = new TArraySizes;
 $$.$arraySizes->addInnerSize();
}
| LEFT_BRACKET conditional_expression RIGHT_BRACKET {
 $$.$loc = $1.$loc;
 $$.$arraySizes = new TArraySizes;

 TArraySize size;
 parseContext.arraySizeCheck($2->getLoc(), $2, size);
 $$.$arraySizes->addInnerSize(size);
}
| array_specifier LEFT_BRACKET RIGHT_BRACKET

```

```

{
 $$ = $1;
 $$.arraySizes->addInnerSize();
}
| array_specifier LEFT_BRACKET conditional_expression RIGHT_BRACKET {
 $$ = $1;

 TArraySize size;
 parseContext.arraySizeCheck($3->getLoc(), $3, size);
 $$.arraySizes->addInnerSize(size);
}
;

type_specifier_nonarray
: VOID {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtVoid;
}
| FLOAT {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat;
}
| DOUBLE {
 parseContext.doubleCheck($1.loc, "double");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
}
| FLOAT16_T {
 parseContext.float16Check($1.loc, "float16_t", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat16;
}
| FLOAT32_T {
 parseContext.explicitFloat32Check($1.loc,
"float32_t", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat;
}
| FLOAT64_T {
 parseContext.explicitFloat64Check($1.loc, "float64_t", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
}
| INT {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt;
}
| UINT {

```

```

 parseContext.fullIntegerCheck($1.loc, "unsigned integer");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtUInt;
}
| INT8_T {
 parseContext.explicitInt8Check($1.loc, "8-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt8;
}
| UINT8_T {
 parseContext.explicitInt8Check($1.loc,
"8-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtUInt8;
}
| INT16_T {
 parseContext.explicitInt16Check($1.loc, "16-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt16;
}
| UINT16_T {
 parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer",
parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtUInt16;
}
| INT32_T {
 parseContext.explicitInt32Check($1.loc, "32-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt;
}
| UINT32_T {
 parseContext.explicitInt32Check($1.loc, "32-bit unsigned
integer", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtUInt;
}
| INT64_T {
 parseContext.int64Check($1.loc, "64-bit integer", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt64;
}
| UINT64_T {
 parseContext.int64Check($1.loc, "64-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtUInt64;
}
| BOOL {

```

```

 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtBool;
}
| VEC2 {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat;
 $$.$setVector(2);
}
| VEC3 {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat;

$$.$setVector(3);
}
| VEC4 {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat;
 $$.$setVector(4);
}
| DVEC2 {
 parseContext.doubleCheck($1.loc, "double vector");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setVector(2);
}
| DVEC3 {
 parseContext.doubleCheck($1.loc, "double vector");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setVector(3);
}
| DVEC4 {
 parseContext.doubleCheck($1.loc, "double vector");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setVector(4);
}
| F16VEC2 {
 parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat16;
 $$.$setVector(2);
}
| F16VEC3 {
 parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat16;
 $$.$setVector(3);
}

```

```

}
| F16VEC4 {
 parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat16;
 $$.$setVector(4);
}
| F32VEC2 {
 parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat;
 $$.$setVector(2);
}
| F32VEC3 {
 parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType
= EbtFloat;
 $$.$setVector(3);
}
| F32VEC4 {
 parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat;
 $$.$setVector(4);
}
| F64VEC2 {
 parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setVector(2);
}
| F64VEC3 {
 parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setVector(3);
}
| F64VEC4 {
 parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType
= EbtDouble;
 $$.$setVector(4);
}
| BVEC2 {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtBool;
}

```

```

 $$.setVector(2);
}
| BVEC3 {
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtBool;
 $$.setVector(3);
}
| BVEC4 {
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtBool;
 $$.setVector(4);
}
| IVEC2 {
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtInt;
 $$.setVector(2);
}
| IVEC3 {
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtInt;
 $$.setVector(3);
}
| IVEC4 {
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtInt;
 $$.setVector(4);
}
| I8VEC2 {
 parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtInt8;
 $$.setVector(2);
}
| I8VEC3 {
 parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtInt8;
 $$.setVector(3);
}
| I8VEC4 {
 parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtInt8;
 $$.setVector(4);
}
| I16VEC2 {
 parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector",
 parseContext.symbolTable.atBuiltInLevel());

```

```

 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt16;
 $$.$setVector(2);
}
| I16VEC3 {
 parseContext.explicitInt16Check($1.loc, "16-bit
signed integer vector", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt16;
 $$.$setVector(3);
}
| I16VEC4 {
 parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt16;
 $$.$setVector(4);
}
| I32VEC2 {
 parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt;
 $$.$setVector(2);
}
| I32VEC3 {
 parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt;
 $$.$setVector(3);
}
| I32VEC4
{
 parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt;
 $$.$setVector(4);
}
| I64VEC2 {
 parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt64;
 $$.$setVector(2);
}
| I64VEC3 {
 parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());

```

```

 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt64;
 $$.$setVector(3);
}
| I64VEC4 {
 parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt64;

 $$.$setVector(4);
}
| UVEC2 {
 parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtUInt;
 $$.$setVector(2);
}
| UVEC3 {
 parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtUInt;
 $$.$setVector(3);
}
| UVEC4 {
 parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtUInt;
 $$.$setVector(4);
}
| U8VEC2 {
 parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtUInt8;
 $$.$setVector(2);
}
| U8VEC3 {
 parseContext.explicitInt8Check($1.loc,
"8-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtInt8;
 $$.$setVector(3);
}
| U8VEC4 {
 parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtUInt8;

```



```

 $$.setVector(4);
}
| U16VEC2 {
 parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtUint16;
 $$.setVector(2);
}
| U16VEC3 {
 parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtUint16;
 $$.setVector(3);
}
| U16VEC4 {
 parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtUint16;
 $$.setVector(4);
}
| U32VEC2 {
 parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtUint;
 $$.setVector(2);
}
| U32VEC3 {
 parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtUint;
 $$.setVector(3);
}
| U32VEC4 {
 parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());

 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtUint;
 $$.setVector(4);
}
}
| U64VEC2 {
 parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());

```

```

 $$basicType = EbtUint64;
 $$setVector(2);
}
| U64VEC3 {
 parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtUint64;
 $$setVector(3);
}
| U64VEC4 {
 parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtUint64;
 $$setVector(4);
}
| MAT2 {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(2, 2);
}
| MAT3 {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(3, 3);
}
| MAT4 {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(4, 4);
}
| MAT2X2 {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(2, 2);
}
| MAT2X3 {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(2, 3);
}
| MAT2X4 {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(2, 4);
}
| MAT3X2 {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;

```

```

 $$.setMatrix(3, 2);
}
| MAT3X3 {
 $$.$init($1.loc,
parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat;
 $$.$setMatrix(3, 3);
}
| MAT3X4 {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat;
 $$.$setMatrix(3, 4);
}
| MAT4X2 {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat;
 $$.$setMatrix(4, 2);
}
| MAT4X3 {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat;
 $$.$setMatrix(4, 3);
}
| MAT4X4 {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat;
 $$.$setMatrix(4, 4);
}
| DMAT2 {
 parseContext.doubleCheck($1.loc, "double matrix");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(2, 2);
}
| DMAT3 {
 parseContext.doubleCheck($1.loc, "double matrix");
 $$.$init($1.loc,
parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(3, 3);
}
| DMAT4 {
 parseContext.doubleCheck($1.loc, "double matrix");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(4, 4);
}
| DMAT2X2 {

```

```

 parseContext.doubleCheck($1.loc, "double matrix");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(2, 2);
}
| DMAT2X3 {
 parseContext.doubleCheck($1.loc, "double matrix");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(2, 3);
}
| DMAT2X4 {
 parseContext.doubleCheck($1.loc, "double matrix");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(2, 4);
}
| DMAT3X2 {
 parseContext.doubleCheck($1.loc,
"double matrix");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(3, 2);
}
| DMAT3X3 {
 parseContext.doubleCheck($1.loc, "double matrix");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(3, 3);
}
| DMAT3X4 {
 parseContext.doubleCheck($1.loc, "double matrix");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(3, 4);
}
| DMAT4X2 {
 parseContext.doubleCheck($1.loc, "double matrix");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(4, 2);
}
| DMAT4X3 {
 parseContext.doubleCheck($1.loc, "double matrix");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(4,

```

```

3);
}
| DMAT4X4 {
 parseContext.doubleCheck($1.loc, "double matrix");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(4, 4);
}
| F16MAT2 {
 parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat16;
 $$.$setMatrix(2, 2);
}
| F16MAT3 {
 parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat16;
 $$.$setMatrix(3, 3);
}
| F16MAT4 {
 parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat16;
 $$.$setMatrix(4, 4);
}

| F16MAT2X2 {
 parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat16;
 $$.$setMatrix(2, 2);
}
| F16MAT2X3 {
 parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat16;
 $$.$setMatrix(2, 3);
}
| F16MAT2X4 {
 parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat16;
 $$.$setMatrix(2, 4);
}
| F16MAT3X2 {
 parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());

```

```

 $$basicType = EbtFloat16;
 $$setMatrix(3, 2);
}
| F16MAT3X3 {
 parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat16;
 $$setMatrix(3, 3);
}
| F16MAT3X4 {
 parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat16;
 $$setMatrix(3, 4);
}
| F16MAT4X2 {
 parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat16;
 $$setMatrix(4, 2);
}
| F16MAT4X3 {
 parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat16;
 $$setMatrix(4, 3);
}
| F16MAT4X4 {
 parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat16;
 $$setMatrix(4, 4);
}
| F32MAT2 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(2, 2);
}
| F32MAT3 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(3, 3);
}
| F32MAT4 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
}

```

```

 $$basicType = EbtFloat;
 $$setMatrix(4, 4);
}
| F32MAT2X2 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(2, 2);
}
| F32MAT2X3 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(2, 3);
}
| F32MAT2X4 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(2, 4);
}
| F32MAT3X2 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc,
parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(3, 2);
}
| F32MAT3X3 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(3, 3);
}
| F32MAT3X4 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(3, 4);
}
| F32MAT4X2 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtFloat;
 $$setMatrix(4, 2);
}
| F32MAT4X3 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());

```

```

 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat;
 $$.$setMatrix(4, 3);
}
| F32MAT4X4 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtFloat;
 $$.$setMatrix(4, 4);
}
| F64MAT2 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(2, 2);
}
| F64MAT3 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(3, 3);
}
| F64MAT4 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(4, 4);
}
| F64MAT2X2 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(2, 2);
}
| F64MAT2X3 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(2, 3);
}
| F64MAT2X4 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(2, 4);
}
| F64MAT3X2 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());

```



```

 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(3, 2);
}
| F64MAT3X3 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(3, 3);
}
| F64MAT3X4 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(3, 4);
}
| F64MAT4X2 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(4, 2);
}
| F64MAT4X3 {
 parseContext.explicitFloat64Check($1.loc, "float64_t
matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(4, 3);
}
| F64MAT4X4 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtDouble;
 $$.$setMatrix(4, 4);
}
| ATOMIC_UINT {
 parseContext.vulkanRemoved($1.loc, "atomic counter types");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtAtomicUint;
}
| SAMPLER1D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat, Esd1D);
}
| SAMPLER2D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;

```

```

 $$sampler.set(EbtFloat, Esd2D);
}
| SAMPLER3D {

$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat, Esd3D);
}
| SAMPLERCUBE {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat, EsdCube);
}
| SAMPLER1DSHADOW {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat, Esd1D, false, true);
}
| SAMPLER2DSHADOW {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat, Esd2D, false, true);
}
| SAMPLERCUBESHADOW {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat, EsdCube, false, true);
}
| SAMPLER1DARRAY {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat, Esd1D, true);
}
| SAMPLER2DARRAY {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat, Esd2D, true);
}
| SAMPLER1DARRAYSHADOW {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat, Esd1D, true, true);
}
| SAMPLER2DARRAYSHADOW {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat, Esd2D, true, true);
}
}

```

```

| SAMPLERCUBEARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat, EsdCube, true);
}
| SAMPLERCUBEARRAYSHADOW {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat, EsdCube, true, true);
}
| F16SAMPLER1D
{
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat16, Esd1D);
#endif
}
| F16SAMPLER2D {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat16, Esd2D);
#endif
}
| F16SAMPLER3D {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat16, Esd3D);
#endif
}
| F16SAMPLERCUBE {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc,
"half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat16, EsdCube);
#endif
}
| F16SAMPLER1DSHADOW {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());

```

```

 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat16, Esd1D, false, true);
#endif
}
| F16SAMPLER2DSHADOW {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat16, Esd2D, false, true);
#endif
}
| F16SAMPLERCUBESHADOW {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc,
"half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat16, EsdCube, false, true);
#endif
}
| F16SAMPLER1DARRAY {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat16, Esd1D, true);
#endif
}
| F16SAMPLER2DARRAY {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat16, Esd2D, true);
#endif
}
| F16SAMPLER1DARRAYSHADOW {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc,
"half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat16, Esd1D, true, true);
#endif
}
| F16SAMPLER2DARRAYSHADOW {
#ifdef AMD_EXTENSIONS

```

```

 parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat16, Esd2D, true, true);
#endif
}
| F16SAMPLERCUBEARRAY {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat16, EsdCube, true);
#endif
}
| F16SAMPLERCUBEARRAYSHADOW {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc,
"half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat16, EsdCube, true, true);
#endif
}
| ISAMPLER1D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtInt, Esd1D);
}
| ISAMPLER2D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtInt, Esd2D);
}
| ISAMPLER3D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtInt, Esd3D);
}
| ISAMPLERCUBE {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtInt, EsdCube);
}
| ISAMPLER1DARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtInt, Esd1D, true);
}
}

```

```

| ISAMPLER2DARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtInt, Esd2D, true);
}
| ISAMPLERCUBEARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtInt, EsdCube, true);
}
| USAMPLER1D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtUint, Esd1D);
}
| USAMPLER2D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtUint, Esd2D);
}
| USAMPLER3D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtUint, Esd3D);
}
| USAMPLERCUBE {
 $$.$init($1.loc,
parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtUint, EsdCube);
}
| USAMPLER1DARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtUint, Esd1D, true);
}
| USAMPLER2DARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtUint, Esd2D, true);
}
| USAMPLERCUBEARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtUint, EsdCube, true);
}
| SAMPLER2DRECT {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());

```

```

 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat, EsdRect);
}
| SAMPLER2DRECTSHADOW {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat,
EsdRect, false, true);
}
| F16SAMPLER2DRECT {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat16, EsdRect);
#endif
}
| F16SAMPLER2DRECTSHADOW {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat16, EsdRect, false, true);
#endif
}
| ISAMPLER2DRECT {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtInt, EsdRect);
}
| USAMPLER2DRECT {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;

 $$sampler.set(EbtUint, EsdRect);
}
| SAMPLERBUFFER {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat, EsdBuffer);
}
| F16SAMPLERBUFFER {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.set(EbtFloat16, EsdBuffer);
#endif
}

```

```

}
| ISAMPLERBUFFER {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtInt, EsdBuffer);
}
| USAMPLERBUFFER {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtUint, EsdBuffer);
}
| SAMPLER2DMS {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat, Esd2D, false, false, true);
}
| F16SAMPLER2DMS {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat16, Esd2D, false, false, true);
#endif
}
| ISAMPLER2DMS {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtInt, Esd2D, false, false, true);
}
| USAMPLER2DMS {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtUint, Esd2D, false, false, true);
}
| SAMPLER2DMSARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat, Esd2D, true, false, true);
}
| F16SAMPLER2DMSARRAY
{
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat16, Esd2D, true, false, true);
#endif
}
}

```



```

| ISAMPLER2DMSARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtInt, Esd2D, true, false, true);
}
| USAMPLER2DMSARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtUint, Esd2D, true, false, true);
}
| SAMPLER {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setPureSampler(false);
}
| SAMPLERSHADOW {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setPureSampler(true);
}
| TEXTURE1D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat, Esd1D);
}
| F16TEXTURE1D {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat16, Esd1D);
#endif
}
| TEXTURE2D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat, Esd2D);
}
| F16TEXTURE2D {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat16,
Esd2D);
#endif
}
| TEXTURE3D {

```

```

 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat, Esd3D);
}
| F16TEXTURE3D {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat16, Esd3D);
#endif
}
| TEXTURECUBE {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat, EsdCube);
}
| F16TEXTURECUBE {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat16,
EsdCube);
#endif
}
| TEXTURE1DARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat, Esd1D, true);
}
| F16TEXTURE1DARRAY {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat16, Esd1D, true);
#endif
}
| TEXTURE2DARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat, Esd2D, true);
}
| F16TEXTURE2DARRAY {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());

```

```

 $$basicType = EbtSampler;
 $$sampler.setTexture(EbtFloat16, Esd2D, true);
#endif
}
| TEXTURECUBEARRAY {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setTexture(EbtFloat, EsdCube, true);
}
| F16TEXTURECUBEARRAY {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setTexture(EbtFloat16, EsdCube, true);
#endif
}
| ITEXTURE1D {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setTexture(EbtInt, Esd1D);
}
| ITEXTURE2D {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setTexture(EbtInt, Esd2D);
}
| ITEXTURE3D {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setTexture(EbtInt, Esd3D);
}
| ITEXTURECUBE {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setTexture(EbtInt, EsdCube);
}
| ITEXTURE1DARRAY {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setTexture(EbtInt, Esd1D, true);
}
| ITEXTURE2DARRAY {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setTexture(EbtInt, Esd2D, true);
}
| ITEXTURECUBEARRAY {

```

```

 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtInt, EsdCube, true);
}
| UTEXTURE1D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtUint,
Esd1D);
}
| UTEXTURE2D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtUint, Esd2D);
}
| UTEXTURE3D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtUint, Esd3D);
}
| UTEXTURECUBE {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtUint, EsdCube);
}
| UTEXTURE1DARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtUint, Esd1D, true);
}
| UTEXTURE2DARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtUint, Esd2D, true);
}
| UTEXTURECUBEARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtUint, EsdCube, true);
}
| TEXTURE2DRECT {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat, EsdRect);
}
| F16TEXTURE2DRECT {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());

```

```

 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat16, EsdRect);
#endif
}
| ITEXTURE2DRECT {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtInt, EsdRect);
}
| UTEXTURE2DRECT {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtUint, EsdRect);
}
| TEXTUREBUFFER
{
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat, EsdBuffer);
}
| F16TEXTUREBUFFER {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat16, EsdBuffer);
#endif
}
| ITEXTUREBUFFER {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtInt, EsdBuffer);
}
| UTEXTUREBUFFER {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtUint, EsdBuffer);
}
| TEXTURE2DMS {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat,
Esd2D, false, false, true);
}
| F16TEXTURE2DMS {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());

```

```

 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat16, Esd2D, false, false, true);
#endif
}
| ITEXTURE2DMS {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtInt, Esd2D, false, false, true);
}
| UTEXTURE2DMS {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtUint, Esd2D, false, false, true);
}
| TEXTURE2DMSARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat, Esd2D, true, false, true);
}
| F16TEXTURE2DMSARRAY
{
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtFloat16, Esd2D, true, false, true);
#endif
}
| ITEXTURE2DMSARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtInt, Esd2D, true, false, true);
}
| UTEXTURE2DMSARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setTexture(EbtUint, Esd2D, true, false, true);
}
| IMAGE1D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setImage(EbtFloat, Esd1D);
}
| F16IMAGE1D {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float

```

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image", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtFloat16, Esd1D);
#endif
}
| IIMAGE1D {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtInt, Esd1D);
}
| UIMAGE1D {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtUint, Esd1D);
}
| IMAGE2D {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtFloat, Esd2D);
}
| F16IMAGE2D {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtFloat16,
Esd2D);
#endif
}
| IIMAGE2D {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtInt, Esd2D);
}
| UIMAGE2D {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtUint, Esd2D);
}
| IMAGE3D {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtFloat, Esd3D);
}
| F16IMAGE3D {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());

```

```

 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setImage(EbtFloat16, Esd3D);
#endif
}
| IIMAGE3D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setImage(EbtInt,
Esd3D);
}
| UIMAGE3D {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setImage(EbtUint, Esd3D);
}
| IMAGE2DRECT {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setImage(EbtFloat, EsdRect);
}
| F16IMAGE2DRECT {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setImage(EbtFloat16, EsdRect);
#endif
}
| IIMAGE2DRECT {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setImage(EbtInt, EsdRect);
}
| UIMAGE2DRECT {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setImage(EbtUint, EsdRect);
}
| IMAGECUBE {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setImage(EbtFloat, EsdCube);
}
| F16IMAGECUBE {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());

```



```

 $$basicType = EbtSampler;
 $$sampler.setImage(EbtFloat16, EsdCube);
#endif
}
| IIMAGECUBE {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtInt, EsdCube);
}
| UIMAGECUBE {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtUint, EsdCube);
}
| IMAGEBUFFER {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType
= EbtSampler;
 $$sampler.setImage(EbtFloat, EsdBuffer);
}
| F16IMAGEBUFFER {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtFloat16, EsdBuffer);
#endif
}
| IIMAGEBUFFER {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtInt, EsdBuffer);
}
| UIMAGEBUFFER {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtUint, EsdBuffer);
}
| IMAGE1DARRAY {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtFloat, Esd1D, true);
}
| F16IMAGE1DARRAY {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc,
"half float image", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());

```

```

 $$basicType = EbtSampler;
 $$sampler.setImage(EbtFloat16, Esd1D, true);
#endif
}
| IIMAGE1DARRAY {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtInt, Esd1D, true);
}
| UIMAGE1DARRAY {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtUint, Esd1D, true);
}
| IMAGE2DARRAY {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtFloat, Esd2D, true);
}
| F16IMAGE2DARRAY {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtFloat16, Esd2D, true);
#endif
}
| IIMAGE2DARRAY {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtInt, Esd2D, true);
}
| UIMAGE2DARRAY {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtUint, Esd2D, true);
}
| IMAGECUBEARRAY {
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtFloat, EsdCube, true);
}
| F16IMAGECUBEARRAY {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
 $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$basicType = EbtSampler;
 $$sampler.setImage(EbtFloat16, EsdCube, true);

```

```

#endif
}
| IIMAGECUBEARRAY {
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtSampler;
 $$.sampler.setImage(EbtInt, EsdCube, true);
}
| UIMAGECUBEARRAY {
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtSampler;
 $$.sampler.setImage(EbtUint, EsdCube, true);
}
| IMAGE2DMS {
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtSampler;
 $$.sampler.setImage(EbtFloat, Esd2D, false, false, true);
}
| F16IMAGE2DMS {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtSampler;
 $$.sampler.setImage(EbtFloat16, Esd2D, false, false, true);
#endif
}
| IIMAGE2DMS {
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());

 $$.basicType = EbtSampler;
 $$.sampler.setImage(EbtInt, Esd2D, false, false, true);
}
| UIMAGE2DMS {
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtSampler;
 $$.sampler.setImage(EbtUint, Esd2D, false, false, true);
}
| IMAGE2DMSARRAY {
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtSampler;
 $$.sampler.setImage(EbtFloat, Esd2D, true, false, true);
}
| F16IMAGE2DMSARRAY {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtSampler;
 $$.sampler.setImage(EbtFloat16, Esd2D, true, false, true);
#endif
}
#endif

```

```

}
| IIMAGE2DMSARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setImage(EbtInt, Esd2D, true,
false, true);
}
| UIMAGE2DMSARRAY {
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setImage(EbtUint, Esd2D, true, false, true);
}
| SAMPLEREXTERNALOES { // GL_OES_EGL_image_external
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.set(EbtFloat, Esd2D);
 $$.$sampler.external = true;
}
| SUBPASSINPUT {
 parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setSubpass(EbtFloat);
}
| SUBPASSINPUTMS {
 parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setSubpass(EbtFloat, true);
}
| F16SUBPASSINPUT {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float subpass input",
parseContext.symbolTable.atBuiltInLevel());
 parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setSubpass(EbtFloat16);
#endif
}
| F16SUBPASSINPUTMS {
#ifdef AMD_EXTENSIONS
 parseContext.float16OpaqueCheck($1.loc, "half float subpass input",
parseContext.symbolTable.atBuiltInLevel());
 parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setSubpass(EbtFloat16, true);
#endif
}

```

```

#endif
}
| ISUBPASSINPUT {
 parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setSubpass(EbtInt);
}
| ISUBPASSINPUTMS {
 parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setSubpass(EbtInt, true);
}
| USUBPASSINPUT {
 parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setSubpass(EbtUInt);
}
| USUBPASSINPUTMS {
 parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtSampler;
 $$.$sampler.setSubpass(EbtUInt, true);
}
| struct_specifier {
 $$ = $1;
 $$.$qualifier.storage = parseContext.symbolTable.atGlobalLevel() ? EvqGlobal : EvqTemporary;
 parseContext.structTypeCheck($$.loc, $$);
}
| TYPE_NAME {

//
// This is for user defined type names. The lexical phase looked up the
// type.
//
if (const TVariable* variable = ($1.symbol)->getAsVariable()) {
 const TType& structure = variable->getType();
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.$basicType = EbtStruct;
 $$.$userDef = &structure;
} else
 parseContext.error($1.loc, "expected type name", $1.string->c_str(), "");
}
;

```

precision\_qualifier

```

: HIGH_PRECISION {
 parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "highp precision qualifier");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 parseContext.handlePrecisionQualifier($1.loc, $$.$qualifier, EpqHigh);
}
| MEDIUM_PRECISION {
 parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "mediump precision qualifier");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 parseContext.handlePrecisionQualifier($1.loc,
$.qualifier, EpqMedium);
}
| LOW_PRECISION {
 parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "lowp precision qualifier");
 $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
 parseContext.handlePrecisionQualifier($1.loc, $$.$qualifier, EpqLow);
}
;

struct_specifier
: STRUCT IDENTIFIER LEFT_BRACE { parseContext.nestedStructCheck($1.loc); } struct_declaration_list
RIGHT_BRACE {
 TType* structure = new TType($5, *$2.string);
 parseContext.structArrayCheck($2.loc, *structure);
 TVariable* userTypeDef = new TVariable($2.string, *structure, true);
 if (! parseContext.symbolTable.insert(*userTypeDef))
 parseContext.error($2.loc, "redefinition", $2.string->c_str(), "struct");
 $$.$init($1.loc);
 $$.$basicType = EbtStruct;
 $$.$userDef = structure;
 --parseContext.structNestingLevel;
}
| STRUCT LEFT_BRACE { parseContext.nestedStructCheck($1.loc);
} struct_declaration_list RIGHT_BRACE {
 TType* structure = new TType($4, TString(""));
 $$.$init($1.loc);
 $$.$basicType = EbtStruct;
 $$.$userDef = structure;
 --parseContext.structNestingLevel;
}
;

struct_declaration_list
: struct_declaration {
 $$ = $1;
}
| struct_declaration_list struct_declaration {
 $$ = $1;
 for (unsigned int i = 0; i < $2->size(); ++i) {

```

```

 for (unsigned int j = 0; j < $$->size(); ++j) {
 if ((*$$)[j].type->getFieldName() == (*$2)[i].type->getFieldName())
 parseContext.error((*$2)[i].loc, "duplicate member name:", "", (*$2)[i].type->getFieldName().c_str());
 }
 $$->push_back((*$2)[i]);
}
}
;

struct_declaration
: type_specifier struct_declarator_list SEMICOLON {
 if ($1.arraySizes) {
 parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed
type");
 parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
 if (parseContext.profile == EEsProfile)
 parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
 }

 $$ = $2;

 parseContext.voidErrorCheck($1.loc, (*$2)[0].type->getFieldName(), $1.basicType);
 parseContext.precisionQualifierCheck($1.loc, $1.basicType, $1.qualifier);

 for (unsigned int i = 0; i < $$->size(); ++i) {
 parseContext.arrayDimCheck($1.loc, (*$$)[i].type, $1.arraySizes);
 (*$$)[i].type->mergeType($1);
 }
}
| type_qualifier type_specifier struct_declarator_list SEMICOLON {
 parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
 if ($2.arraySizes) {
 parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
 parseContext.profileRequires($2.loc, EEsProfile, 300, 0, "arrayed type");
 if (parseContext.profile
== EEsProfile)
 parseContext.arraySizeRequiredCheck($2.loc, *$2.arraySizes);
 }

 $$ = $3;

 parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
 parseContext.voidErrorCheck($2.loc, (*$3)[0].type->getFieldName(), $2.basicType);
 parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
 parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

 for (unsigned int i = 0; i < $$->size(); ++i) {
 parseContext.arrayDimCheck($1.loc, (*$$)[i].type, $2.arraySizes);

```

```

 (*$$)[i].type->mergeType($2);
 }
}
;

struct_declarator_list
: struct_declarator {
 $$ = new TTypeList;
 $$->push_back($1);
}
| struct_declarator_list COMMA struct_declarator {
 $$->push_back($3);
}
;

struct_declarator
: IDENTIFIER {
 $$.type = new TType(EbtVoid);
 $$.loc = $1 .loc;
 $$.type->setFieldName(*$1 .string);
}
| IDENTIFIER array_specifier {
 parseContext.arrayDimCheck($1 .loc, $2 .arraySizes, 0);

 $$.type = new TType(EbtVoid);
 $$.loc = $1 .loc;
 $$.type->setFieldName(*$1 .string);
 $$.type->newArraySizes(*$2 .arraySizes);
}
;

initializer
: assignment_expression {
 $$ = $1;
}
| LEFT_BRACE initializer_list RIGHT_BRACE {
 const char* initFeature = "{ } style initializers";
 parseContext.requireProfile($1 .loc, ~EEsProfile, initFeature);
 parseContext.profileRequires($1 .loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);
 $$ = $2;
}
| LEFT_BRACE initializer_list COMMA RIGHT_BRACE {
 const char* initFeature = "{ } style initializers";
 parseContext.requireProfile($1 .loc, ~EEsProfile, initFeature);
 parseContext.profileRequires($1 .loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);
 $$ = $2;
}
;

```



```

initializer_list
: initializer {
 $$ = parseContext.intermediate.growAggregate(0, $1, $1->getLoc());
}
| initializer_list COMMA initializer {
 $$ = parseContext.intermediate.growAggregate($1, $3);
}
;

declaration_statement
: declaration { $$ = $1; }
;

statement
: compound_statement { $$ = $1; }
| simple_statement { $$ = $1; }
;

// Grammar Note: labeled statements for switch statements only; 'goto' is not supported.

simple_statement
: declaration_statement { $$ = $1; }
| expression_statement { $$ = $1; }
| selection_statement { $$ = $1; }
| switch_statement { $$ = $1; }
| case_label { $$ = $1; }
| iteration_statement { $$ = $1; }
| jump_statement { $$ = $1; }
;

compound_statement
: LEFT_BRACE RIGHT_BRACE { $$ = 0; }
| LEFT_BRACE {
 parseContext.symbolTable.push();
 ++parseContext.statementNestingLevel;
}
statement_list {
 parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
 --parseContext.statementNestingLevel;
}
RIGHT_BRACE {
 if ($3 && $3->getAsAggregate())
 $3->getAsAggregate()->setOperator(EOpSequence);
 $$ = $3;
}
;

```

```

statement_no_new_scope
: compound_statement_no_new_scope { $$ = $1; }
| simple_statement { $$ = $1; }
;

statement_scoped
: {
 ++parseContext.controlFlowNestingLevel;
}
compound_statement {
 --parseContext.controlFlowNestingLevel;
 $$ = $2;
}
| {
 parseContext.symbolTable.push();
 ++parseContext.statementNestingLevel;
 ++parseContext.controlFlowNestingLevel;
}
simple_statement {
 parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
 --parseContext.statementNestingLevel;
 --parseContext.controlFlowNestingLevel;
 $$ = $2;
}

compound_statement_no_new_scope
// Statement that doesn't create a new scope,
for selection_statement, iteration_statement
: LEFT_BRACE RIGHT_BRACE {
 $$ = 0;
}
| LEFT_BRACE statement_list RIGHT_BRACE {
 if ($2 && $2->getAsAggregate())
 $2->getAsAggregate()->setOperator(EOpSequence);
 $$ = $2;
}
;

statement_list
: statement {
 $$ = parseContext.intermediate.makeAggregate($1);
 if ($1 && $1->getAsBranchNode() && ($1->getAsBranchNode()->getFlowOp() == EOpCase ||
 $1->getAsBranchNode()->getFlowOp() == EOpDefault)) {
 parseContext.wrapupSwitchSubsequence(0, $1);
 $$ = 0; // start a fresh subsequence for what's after this case
 }
}
| statement_list statement {

```

```

 if ($2 && $2->getAsBranchNode() && ($2->getAsBranchNode()->getFlowOp() == EOpCase ||
 $2->getAsBranchNode()->getFlowOp() == EOpDefault)) {
 parseContext.wrapupSwitchSubsequence($1 ? $1->getAsAggregate()
: 0, $2);
 $$ = 0; // start a fresh subsequence for what's after this case
 } else
 $$ = parseContext.intermediate.growAggregate($1, $2);
}
;

```

```

expression_statement
: SEMICOLON { $$ = 0; }
| expression SEMICOLON { $$ = static_cast<TIntermNode*>($1); }
;

```

```

selection_statement
: selection_statement_nonattributed {
 $$ = $1;
}
| attribute selection_statement_nonattributed {
 parseContext.handleSelectionAttributes(*$1, $2);
 $$ = $2;
}

```

```

selection_statement_nonattributed
: IF LEFT_PAREN expression RIGHT_PAREN selection_rest_statement {
 parseContext.boolCheck($1.loc, $3);
 $$ = parseContext.intermediate.addSelection($3, $5, $1.loc);
}
;

```

```

selection_rest_statement
: statement_scoped ELSE statement_scoped {
 $$<node1 = $1;
 $$<node2 = $3;
}
| statement_scoped {
 $$<node1 = $1;
 $$<node2 = 0;
}
;

```

```

condition
// In 1996 c++ draft,
conditions can include single declarations
: expression {
 $$ = $1;
 parseContext.boolCheck($1->getLoc(), $1);
}

```

```

}
| fully_specified_type IDENTIFIER EQUAL initializer {
 parseContext.boolCheck($2.loc, $1);

 TType type($1);
 TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, 0, $4);
 if (initNode)
 $$ = initNode->getAsTyped();
 else
 $$ = 0;
}
;

switch_statement
: switch_statement_nonattributed {
 $$ = $1;
}
| attribute switch_statement_nonattributed {
 parseContext.handleSwitchAttributes(*$1, $2);
 $$ = $2;
}

switch_statement_nonattributed
: SWITCH LEFT_PAREN expression RIGHT_PAREN {
 // start new switch sequence on the switch stack
 ++parseContext.controlFlowNestingLevel;
 ++parseContext.statementNestingLevel;
 parseContext.switchSequenceStack.push_back(new TIntermSequence);
 parseContext.switchLevel.push_back(parseContext.statementNestingLevel);
 parseContext.symbolTable.push();
}
LEFT_BRACE switch_statement_list RIGHT_BRACE {
 $$ = parseContext.addSwitch($1.loc, $3, $7 ? $7->getAsAggregate() : 0);
 delete parseContext.switchSequenceStack.back();
 parseContext.switchSequenceStack.pop_back();
 parseContext.switchLevel.pop_back();
 parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
 --parseContext.statementNestingLevel;
 --parseContext.controlFlowNestingLevel;
}
;

switch_statement_list
: /* nothing */ {
 $$ = 0;
}
| statement_list {
 $$ = $1;
}

```

```

}
;

case_label
: CASE expression COLON {
 $$ = 0;
 if (parseContext.switchLevel.size() == 0)
 parseContext.error($1.loc, "cannot appear outside switch statement", "case", "");
 else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
 parseContext.error($1.loc,
"cannot be nested inside control flow", "case", "");
 else {
 parseContext.constantValueCheck($2, "case");
 parseContext.integerCheck($2, "case");
 $$ = parseContext.intermediate.addBranch(EOpCase, $2, $1.loc);
 }
}
| DEFAULT COLON {
 $$ = 0;
 if (parseContext.switchLevel.size() == 0)
 parseContext.error($1.loc, "cannot appear outside switch statement", "default", "");
 else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
 parseContext.error($1.loc, "cannot be nested inside control flow", "default", "");
 else
 $$ = parseContext.intermediate.addBranch(EOpDefault, $1.loc);
}
;

iteration_statement
: iteration_statement_nonattributed {
 $$ = $1;
}
| attribute iteration_statement_nonattributed {
 parseContext.handleLoopAttributes(*$1, $2);
 $$ = $2;
}

iteration_statement_nonattributed
: WHILE LEFT_PAREN {
 if (! parseContext.limits.whileLoops)
 parseContext.error($1.loc, "while loops not available", "limitation", "");
 parseContext.symbolTable.push();
 ++parseContext.loopNestingLevel;
 ++parseContext.statementNestingLevel;
 ++parseContext.controlFlowNestingLevel;
}
condition RIGHT_PAREN statement_no_new_scope {
 parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
}

```

```

 $$ = parseContext.intermediate.addLoop($6, $4, 0, true, $1.loc);
 --parseContext.loopNestingLevel;
 --parseContext.statementNestingLevel;
 --parseContext.controlFlowNestingLevel;
}
| DO {
 ++parseContext.loopNestingLevel;
 ++parseContext.statementNestingLevel;
 ++parseContext.controlFlowNestingLevel;
}
statement WHILE LEFT_PAREN expression RIGHT_PAREN SEMICOLON {
 if (! parseContext.limits.whileLoops)
 parseContext.error($1.loc, "do-while loops
not available", "limitation", "");

 parseContext.boolCheck($8.loc, $6);

 $$ = parseContext.intermediate.addLoop($3, $6, 0, false, $4.loc);
 --parseContext.loopNestingLevel;
 --parseContext.statementNestingLevel;
 --parseContext.controlFlowNestingLevel;
}
| FOR LEFT_PAREN {
 parseContext.symbolTable.push();
 ++parseContext.loopNestingLevel;
 ++parseContext.statementNestingLevel;
 ++parseContext.controlFlowNestingLevel;
}
for_init_statement for_rest_statement RIGHT_PAREN statement_no_new_scope {
 parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
 $$ = parseContext.intermediate.makeAggregate($4, $2.loc);
 TIntermLoop* forLoop = parseContext.intermediate.addLoop($7, reinterpret_cast<TIntermTyped*>($5.node1),
reinterpret_cast<TIntermTyped*>($5.node2), true, $1.loc);
 if (! parseContext.limits.nonInductiveForLoops)
 parseContext.inductiveLoopCheck($1.loc,
$4, forLoop);
 $$ = parseContext.intermediate.growAggregate($$, forLoop, $1.loc);
 $$->getAsAggregate()->setOperator(EOpSequence);
 --parseContext.loopNestingLevel;
 --parseContext.statementNestingLevel;
 --parseContext.controlFlowNestingLevel;
}
;

for_init_statement
: expression_statement {
 $$ = $1;
}

```

```

| declaration_statement {
 $$ = $1;
}
;

conditionopt
: condition {
 $$ = $1;
}
| /* May be null */ {
 $$ = 0;
}
;

for_rest_statement
: conditionopt SEMICOLON {
 $$.node1 = $1;
 $$.node2 = 0;
}
| conditionopt SEMICOLON expression {
 $$.node1 = $1;
 $$.node2 = $3;
}
;

jump_statement
: CONTINUE SEMICOLON {
 if (parseContext.loopNestingLevel <= 0)
 parseContext.error($1.loc, "continue statement only allowed in loops", "", "");
 $$ = parseContext.intermediate.addBranch(EOpContinue, $1.loc);
}
|
BREAK SEMICOLON {
 if (parseContext.loopNestingLevel + parseContext.switchSequenceStack.size() <= 0)
 parseContext.error($1.loc, "break statement only allowed in switch and loops", "", "");
 $$ = parseContext.intermediate.addBranch(EOpBreak, $1.loc);
}
| RETURN SEMICOLON {
 $$ = parseContext.intermediate.addBranch(EOpReturn, $1.loc);
 if (parseContext.currentFunctionType->getBasicType() != EbtVoid)
 parseContext.error($1.loc, "non-void function must return a value", "return", "");
 if (parseContext.inMain)
 parseContext.postEntryPointReturn = true;
}
| RETURN expression SEMICOLON {
 $$ = parseContext.handleReturnValue($1.loc, $2);
}
| DISCARD SEMICOLON {

```

```

 parseContext.requireStage($1.loc, EShLangFragment, "discard");
 $$ = parseContext.intermediate.addBranch(EOPKill, $1.loc);
}
;

// Grammar Note: No 'goto'. Gotos are not supported.

translation_unit
: external_declaration
{
 $$ = $1;
 parseContext.intermediate.setTreeRoot($$);
}
| translation_unit external_declaration {
 if ($2 != nullptr) {
 $$ = parseContext.intermediate.growAggregate($1, $2);
 parseContext.intermediate.setTreeRoot($$);
 }
}
;

external_declaration
: function_definition {
 $$ = $1;
}
| declaration {
 $$ = $1;
}
| SEMICOLON {
 parseContext.requireProfile($1.loc, ~EEsProfile, "extraneous semicolon");
 parseContext.profileRequires($1.loc, ~EEsProfile, 460, nullptr, "extraneous semicolon");
 $$ = nullptr;
}
;

function_definition
: function_prototype {
 $1.function = parseContext.handleFunctionDeclarator($1.loc, *$1.function, false /* not prototype */);
 $1.intermNode = parseContext.handleFunctionDefinition($1.loc, *$1.function);
}
compound_statement_no_new_scope {
 // May be best done as post process phase on intermediate
code
 if (parseContext.currentFunctionType->getBasicType() != EbtVoid && ! parseContext.functionReturnsValue)
 parseContext.error($1.loc, "function does not return a value:", "", $1.function->getName().c_str());
 parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
 $$ = parseContext.intermediate.growAggregate($1.intermNode, $3);
 parseContext.intermediate.setAggregateOperator($$, EOpFunction, $1.function->getType(), $1.loc);
}

```



```

$$->getAsAggregate()->setName($1.function->getMangledName().c_str());

// store the pragma information for debug and optimize and other vendor specific
// information. This information can be queried from the parse tree
$$->getAsAggregate()->setOptimize(parseContext.contextPragma.optimize);
$$->getAsAggregate()->setDebug(parseContext.contextPragma.debug);
$$->getAsAggregate()->setPragmaTable(parseContext.contextPragma.pragmaTable);
}
;

```

attribute

```

: LEFT_BRACKET LEFT_BRACKET attribute_list RIGHT_BRACKET RIGHT_BRACKET {
 $$ = $3;
 parseContext.requireExtensions($1.loc, 1, &E_GL_EXT_control_flow_attributes, "attribute");
}

```

attribute\_list

```

: single_attribute {
 $$ = $1;
}
| attribute_list COMMA single_attribute {
 $$ = parseContext.mergeAttributes($1, $3);
}

```

single\_attribute

```

: IDENTIFIER {
 $$ = parseContext.makeAttributes(*$1.string);
}
| IDENTIFIER LEFT_PAREN constant_expression RIGHT_PAREN {
 $$ = parseContext.makeAttributes(*$1.string, $3);
}

```

%%

Found in path(s):

```

* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
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```

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\*

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\*

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\*

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\*

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---

# 1.449 jinja2 3.0.3

## 1.449.1 Available under license :

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Metadata-Version: 2.1

Name: Jinja2

Version: 3.0.3

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Donate, <https://palletsprojects.com/donate>

Project-URL: Documentation, <https://jinja.palletsprojects.com/>

Project-URL: Changes, <https://jinja.palletsprojects.com/changes/>

Project-URL: Source Code, <https://github.com/pallets/jinja/>

Project-URL: Issue Tracker, <https://github.com/pallets/jinja/issues/>



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Platform: UNKNOWN  
Classifier: Development Status :: 5 - Production/Stable  
Classifier: Environment :: Web Environment  
Classifier: Intended Audience :: Developers  
Classifier: License :: OSI Approved :: BSD License  
Classifier:  
Operating System :: OS Independent  
Classifier: Programming Language :: Python  
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content  
Classifier: Topic :: Text Processing :: Markup :: HTML  
Requires-Python: >=3.6  
Description-Content-Type: text/x-rst  
Provides-Extra: i18n  
License-File: LICENSE.rst

## Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- 
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

## Installing

-----

Install and update using `pip`\_:

.. code-block:: text

```
$ pip install -U Jinja2
```

.. \_pip: <https://pip.pypa.io/en/stable/getting-started/>

In A Nutshell

-----

.. code-block:: jinja

```
{% extends "base.html" % }
{% block title % }Members{% endblock % }
{% block content % }

{% for user in users % }
 {{ user.username }}
{% endfor % }

{% endblock % }
```

Donate

-----

The Pallets organization develops and supports Jinja and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, please donate today`\_.

.. \_please donate today: <https://palletsprojects.com/donate>

Links

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- Documentation: <https://jinja.palletsprojects.com/>
- Changes: <https://jinja.palletsprojects.com/changes/>
- PyPI Releases: <https://pypi.org/project/Jinja2/>
- Source Code: <https://github.com/pallets/jinja/>
- Issue Tracker: <https://github.com/pallets/jinja/issues/>
- Website: <https://palletsprojects.com/p/jinja/>
- Twitter: <https://twitter.com/PalletsTeam>

- Chat: <https://discord.gg/pallets>

Found in path(s):

\* /opt/cola/permits/1226358395\_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/src/Jinja2.egg-info/PKG-INFO

\* /opt/cola/permits/1226358395\_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/PKG-INFO

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[metadata]

name = Jinja2

version = attr: jinja2.\_\_version\_\_

url = <https://palletsprojects.com/p/jinja/>

project\_urls =

Donate = <https://palletsprojects.com/donate>

Documentation = <https://jinja.palletsprojects.com/>

Changes = <https://jinja.palletsprojects.com/changes/>  
Source Code = <https://github.com/pallets/jinja/>  
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Twitter = <https://twitter.com/PalletsTeam>  
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license = BSD-3-Clause  
license\_files = LICENSE.rst  
author = Armin Ronacher  
author\_email = armin.ronacher@active-4.com  
maintainer = Pallets  
maintainer\_email = contact@palletsprojects.com  
description = A very fast and expressive template engine.  
long\_description = file: README.rst  
long\_description\_content\_type = text/x-rst  
classifiers =  
Development Status :: 5 - Production/Stable  
Environment :: Web Environment  
Intended Audience :: Developers  
License :: OSI Approved ::  
BSD License  
Operating System :: OS Independent  
Programming Language :: Python  
Topic :: Internet :: WWW/HTTP :: Dynamic Content  
Topic :: Text Processing :: Markup :: HTML

[options]

packages = find:  
package\_dir = = src  
include\_package\_data = true  
python\_requires = >= 3.6

[options.packages.find]

where = src

[options.entry\_points]

babel.extractors =  
jinja2 = jinja2.ext:babel\_extract[!18n]

[tool:pytest]

testpaths = tests  
filterwarnings =  
error  
ignore:The loop argument:DeprecationWarning:asyncio[.]base\_events:542

[coverage:run]

branch = True  
source =  
jinja2

tests

[coverage:paths]

source =

src

\*/site-packages

[flake8]

select = B, E, F, W, B9, ISC

ignore =

E203

E501

E722

W503

max-line-length = 80

per-file-ignores =

src/jinja2/\_\_init\_\_.py: F401

[mypy]

files = src/jinja2

python\_version = 3.6

disallow\_subclassing\_any = True

disallow\_untyped\_calls = True

disallow\_untyped\_defs = True

disallow\_incomplete\_defs = True

no\_implicit\_optional = True

local\_partial\_types = True

no\_implicit\_reexport

= True

strict\_equality = True

warn\_redundant\_casts = True

warn\_unused\_configs = True

warn\_unused\_ignores = True

warn\_return\_any = True

warn\_unreachable = True

[mypy-jinja2.defaults]

no\_implicit\_reexport = False

[mypy-markupsafe]

no\_implicit\_reexport = False

[egg\_info]

tag\_build =

tag\_date = 0

Found in path(s):

\* /opt/cola/permits/1226358395\_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/setup.cfg

# 1.450 libogg 1.3.4-0ubuntu1

## 1.450.1 Available under license :

This package was debianized by Christopher L Cheney <ccheney@debian.org> on Sun, 29 Oct 2000 01:11:57 -0500.

It was downloaded from <http://www.xiph.org>

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by master.debian.org with esmtps (TLS1.0:RSA\_ARCFOUR\_SHA1:16)  
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(envelope-from <silviapfeiffer1@gmail.com>)  
id 1QsTXr-0004MO-Ek  
for ron@debian.org; Sun, 14 Aug 2011 05:47:35 +0000  
In-Reply-To: <20110813065417.GV2324@audi.shelbyville.oz>  
References: <20110813065417.GV2324@audi.shelbyville.oz>  
From: Silvia Pfeiffer <silviapfeiffer1@gmail.com>  
Date: Sun, 14 Aug 2011 15:47:09 +1000  
Message-ID: <CAHp8n2nmGN+G09aA118KN86NeX9yw\_VJAQNFZebm74k195zz+Q@mail.gmail.com>  
Subject: Re: Distributing the libogg RFCs in the Debian package  
To: Ron <ron@debian.org>  
Cc: Christopher Montgomery <monty@xiph.org>,  
Ivo Emanuel Goncalves <justivo@gmail.com>

Hi Ron,

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Cheers,  
Silvia.

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## 1.451 also 1.2.2-2.1ubuntu2.5

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```

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```
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```

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<signature of Ty Coon>, 1 April 1989
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Any

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# 1.453 gofrs-flock 0.8.1

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## 1.454 icu 66.1-2ubuntu2.1

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Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
```



```

SHAREDLIBCPPFLAGS = -DPIC

Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

Shared object suffix
SO = so
Non-shared intermediate object suffix
STATIC_O = ao

Compilation
rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[-s $@] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[-s $@] || rm -f $@'

Versioned libraries rules

```

```
%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@
```

```
Bind internal references
```

```
LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

```
End BSD-specific setup
```

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# 1.456 cyphar-filepath-securejoin 0.2.3

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# 1.457 charset-normalizer 2.0.9

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17 files are included in the source distribution tar. They are used to verify the standard functions of this library. They are mandatory to run `pytest` but not required to make the lib usable after install. They DO NOT guarantee that the detection-coverage will not regress.

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# 1.458 six 1.14.0

## 1.458.1 Available under license :

The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

Marc Abramowitz  
immerrr again  
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# 1.459 python 3.8.2-0ubuntu2

## 1.459.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cw.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE  
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
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0.9.0 thru 1.2				
	1991-1995	CWI	yes	
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes

2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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# 1.463 properties 1.8.1

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name: license-check

on:

push:

paths:

- 'vendor'

pull\_request:

paths:

- 'vendor'

permissions:

contents: read

jobs:

build:

name: Build

runs-on: ubuntu-latest

steps:

- name: Setup Go

uses: actions/setup-go@main

with:

go-version: 1.18

id: go

- name: Code checkout

uses: actions/checkout@master

- name: Check License

run: |

make check-licenses

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proefs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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```
Names should be added to this file like so:
```

```
Name <email address>
#
```

```
An entry with two email addresses specifies that the
first address should be used in the submit logs and
that the second address should be recognized as the
same person when interacting with Rietveld.
```

```
Please keep the list sorted.
```

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Support for streaming Protocol Buffer messages for the Go language (golang).

[https://github.com/matttproud/golang\\_protobuf\\_extensions](https://github.com/matttproud/golang_protobuf_extensions)

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Any executables

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## 1.475 valyala-fastrand 1.1.0

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## 1.476 glibc 2.27-3ubuntu1

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jar/org/w3c/dom/html/HTMLDOMImplementation.java

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jar/org/apache/xerces/dom3/as/ElementEditAS.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASObject.java

\*

```
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASDataType.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASContentModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/NodeEditAS.java
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/**
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If
so, this content model should not be used
 * for any purpose other than checking unique particle attribution
 *
 * @return a boolean that says whether this content has been compacted for UPA
*/
```

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```
*/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
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```

```
/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new LSParser. The newly constructed parser may
 *
then be configured by means of its DOMConfiguration
 * object, and used to parse documents by means of its parse
 * method.
 * @param mode The mode argument is either
 * MODE_SYNCHRONOUS or MODE_ASYNCHRONOUS, if
 * mode is MODE_SYNCHRONOUS then the
 * LSParser that is created will operate in synchronous
 * mode, if it's MODE_ASYNCHRONOUS then the
 * LSParser that is created will operate in asynchronous
 * mode.
 * @param schemaType An absolute URI representing the type of the schema
```

- \* language used during the load of a `Document` using the
- \* newly created `LSParser`. Note that no lexical checking
- \* is done on the absolute URI. In order to create a
- \* `LSParser` for any kind of schema types (i.e. the
- \* `LSParser` will be free to use any schema

found), use the value

- \* `null`.
- \* **Note:** For W3C XML Schema [[XML Schema Part 1](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/)],
- \* applications must use the value
- \* `"http://www.w3.org/2001/XMLSchema"`. For XML DTD [[XML 1.0](http://www.w3.org/TR/2000/REC-xml-20001006/)],
- \* applications must use the value
- \* `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
- \* are outside the scope of the W3C and therefore should recommend an
- \* absolute URI in order to use this method.
- \* **@return** The newly created `LSParser` object. This
- \* `LSParser` is either synchronous or asynchronous
- \* depending on the value of the `mode` argument.
- \* **Note:** By default, the newly created `LSParser`
- \* does not contain a `DOMErrorHandler`, i.e. the value of
- \* the "[error-handler](http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler)" configuration parameter is `null`. However, implementations
- \* may provide a default error handler at creation time. In that case,
- \* the initial value of the `"error-handler"` configuration
- \* parameter on the new created `LSParser` contains a
- \* reference to the default error handler.
- \* **@exception** `DOMException`
- \* `NOT_SUPPORTED_ERR`: Raised if the requested mode or schema type is
- \* not supported.

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`/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java`

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- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
- \*
- /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
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- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ShadowedSymbolTable.java
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- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptgroupElement.java
- \*
- /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
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 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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jar/org/apache/xerces/dom/ASModelImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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jar/org/apache/xerces/impl/XML11NSDocumentScannerImpl.java
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jar/org/apache/xerces/xni/XMLDTDCContentModelHandler.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom/DOMImplementationListImpl.java  
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/\*\*  
\* used to check the 3 constraints against each complex type  
\* (should be each model group):  
\* Unique Particle  
Attribution, Particle Derivation (Restriction),  
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Found in path(s):  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/XSConstraints.java  
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Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/package.html

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Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSDFACM.java

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java

\*

/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/YearDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/DateDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/MonthDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/DurationDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java

\*

/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/TimeDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/DayDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java

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```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DOMMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XPointerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/SAXMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties
```

## 1.478 simpleclient 0.9.0

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* Source: http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/DoubleAdder.java?revision=1.12
*/
```

Found in path(s):

```
* /opt/cola/permits/1257332897_1642801897.79/0/simpleclient-0-9-0-sources-
jar/io/prometheus/client/DoubleAdder.java
```



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\* /opt/cola/permits/1257332897\_1642801897.79/0/simpleclient-0-9-0-sources-jar/io/prometheus/client/CKMSQuantiles.java

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\* Source: <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/Striped64.java?revision=1.10>

\*/

Found in path(s):

\* /opt/cola/permits/1257332897\_1642801897.79/0/simpleclient-0-9-0-sources-jar/io/prometheus/client/Striped64.java

## 1.479 simpleclient-servlet 0.9.0

### 1.479.1 Available under license :

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## 1.480 simpleclient-dropwizard 0.9.0

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# 1.481 jetty-setuid-java 1.0.4

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Found in path(s):

```
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/SetUIDListener.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/SetUIDServer.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/SetUID.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/Group.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/RLimit.java
*
/opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/Passwd.java
```

# 1.482 logging-interceptor 3.12.12

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\* /opt/cola/permits/1257332962\_1642801933.56/0/logging-interceptor-3-12-12-sources-jar/okhttp3/logging/LoggingEventListener.java

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Found in path(s):

\* /opt/cola/permits/1257332962\_1642801933.56/0/logging-interceptor-3-12-12-sources-jar/okhttp3/logging/HttpLoggingInterceptor.java

# 1.483 zjsonpatch 0.3.0

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```
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/NodeType.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonDiff.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/NoopProcessor.java
*
/opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/ApplyProcessor.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/Constants.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/CompatibilityFlags.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonPatchApplicationException.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonPatchProcessor.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/InvalidJsonPatchException.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/Operation.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonPatch.java
*
/opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/Diff.java
```

# 1.484 java-semver 0.9.0

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\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/expr/LexerException.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/package-info.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/expr/And.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/expr/Not.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/expr/ExpressionParser.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/expr/package-info.java  
\*  
/opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/expr/GreaterOrEqual.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/expr/LessOrEqual.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/expr/Equal.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/expr/UnexpectedTokenException.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/expr/NotEqual.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/expr/CompositeExpression.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/expr/Or.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/util/Stream.java  
\*  
/opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/expr/Expression.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/VersionParser.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-  
jar/com/github/zafarkhaja/semver/util/UnexpectedElementException.java

```
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/Version.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/NormalVersion.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/expr/Lexer.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/UnexpectedCharacterException.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/util/package-info.java
*
/opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/expr/Less.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/Parser.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/expr/Greater.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/ParseException.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/MetadataVersion.java
```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/resources/jquery-1.6.2.min.js
```

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```
/*
* jQuery Templates Plugin 1.0.0pre
* http://github.com/jquery/jquery-tmpl
* Requires jQuery 1.4.2
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*/
```

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```
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/resources/jquery.templ.min.js
```

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```

Found in path(s):

```
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/com/google/appengine/tools/appstats/MiniProfilerAppstats.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/MiniProfiler.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/MiniProfilerFilter.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
```

jar/ca/jimr/gae/profiler/resources/MiniProfilerResourceLoader.java  
\* /opt/cola/permits/1257333100\_1642801922.15/0/gae-mini-profiler-1-1-1-sources-  
jar/ca/jimr/gae/profiler/MiniProfilerServlet.java

## 1.486 simpleclient-common 0.9.0

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## 1.487 stateless4j 2.5.0

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 */
```

Found in path(s):

```
* /opt/cola/permits/1257784248_1643014186.5/0/stateless4j-2-5-0-sources-
jar/com/github/oxo42/stateless4j/delegates/FuncBoolean.java
* /opt/cola/permits/1257784248_1643014186.5/0/stateless4j-2-5-0-sources-
jar/com/github/oxo42/stateless4j/OutVar.java
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## 1.488 mchange-commons-java 0.2.15

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# 1.497 commons-cli 1.5.0

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* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/StoreFalseArgumentAction.java
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jar/net/sourceforge/argparse4j/impl/choice/CollectionArgumentChoice.java
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jar/net/sourceforge/argparse4j/helper/CJKTextWidthCounter.java  
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jar/net/sourceforge/argparse4j/ArgumentParsers.java  
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jar/net/sourceforge/argparse4j/impl/action/StoreConstArgumentAction.java  
\*  
/opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/internal/ArgumentGroupImpl.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentAction.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/inf/Namespace.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/impl/Arguments.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/inf/Subparser.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentType.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/impl/action/AppendConstArgumentAction.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/impl/type/StringArgumentType.java  
\*  
/opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentParserException.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/helper/TextHelper.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/internal/ArgumentImpl.java

\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/internal/SubparsersImpl.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/helper/ASCIITextWidthCounter.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentGroup.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentChoice.java  
\*  
/opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/helper/PrefixPattern.java  
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\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/impl/type/BooleanArgumentType.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/inf/MetavarInference.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-  
jar/net/sourceforge/argparse4j/impl/type/CaseInsensitiveEnumArgumentType.java

# 1.499 reflections 0.9.12

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For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4  
components:

```
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-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

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```

\*/  
(By Douglas Crockford <douglas@crockford.com>)

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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# 1.501 otel-exporters-otlp-otlptrace 1.0.1

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lib/erl/src/Makefile.am

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```
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-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
 json_parse.js
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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```

-----

Codegen template

in t\_html\_generator.h

\* Bootstrap v2.0.3

\*

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\* Designed and built with all the love in the world @twitter by @mdo and @fat.

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For t\_cl\_generator.cc

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# 1.502 otel-trace 1.0.1

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```
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#
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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
 json_parse.js
 2015-05-02
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
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 be retained, unchanged, in its entirety. If
 * for any reason the author might be held responsible for any consequences
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*/
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
//
```

```

Codegen template
in t_html_generator.h
```

```
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*
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*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

```

For t_cl_generator.cc

* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook
```

# 1.503 contrib-instrumentation- google.golang.org-grpc-otelgrpc 0.25.0

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jar/javax/xml/bind/util/ValidationEventCollector.java  
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\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessorOrder.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessType.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAnyAttribute.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlMimeType.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlSchemaTypes.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlMixed.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/W3CDomHandler.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/attachment/AttachmentUnmarshaller.java  
\*  
/opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessorOrder.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/DomHandler.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlInlineBinaryData.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/SchemaOutputResolver.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAnyElement.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Binder.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAttachmentRef.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/attachment/AttachmentMarshaller.java  
\*  
/opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlSchemaType.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessorType.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElementWrapper.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlList.java

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\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-  
jar/javax/xml/bind/GetPropertyAction.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-  
jar/javax/xml/bind/annotation/XmlSeeAlso.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-  
jar/javax/xml/bind/DataBindingException.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXB.java

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Found in path(s):

```
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/JAXBPermission.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/WhiteSpaceProcessor.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
```

jar/javax/xml/bind/DatatypeConverterImpl.java

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\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/package.html

# 1.518 slf4j 1.7.36

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jar/org/slf4j/bridge/SLF4JBridgeHandler.java

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## 1.529 go-logr-stdr 1.2.2



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# 1.530 zlib 1.2.12

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\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 11th, 2022

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jloup@zip.org        madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

\*/

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## 1.533 alsa-ucm-conf 1.2.2-1ubuntu0.13

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Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <[lasse.collin@tukaani.org](mailto:lasse.collin@tukaani.org)>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

Comment:

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To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

[...]

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Origin: configure.ac from XZ Utils,  
visibility.m4 serial 1 (gettext-0.15),  
Autoconf 2.52g

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## 1.539 bash 5.0-6ubuntu1.2

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bash: <ftp.gnu.org:/pub/gnu/bash/bash-4.3.tar.gz>

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Version: 0.0.0

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\* /opt/cola/permits/1320410882\_1651537966.27/0/pkg-resources-0-0-0-dist-info-  
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## 1.560 glibc 2.31-0ubuntu9.9

## 1.560.1 Available under license :

/\* Test program for the gcc interface.

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## 1.568 jwalterweatherman 1.1.0

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## 1.569 glob 0.2.3

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- \* Small patch to fix Python CallMethod().

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- \* Small optimizations to Python serialization.

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- \* VI syntax highlighting tweaks.
- \* Fix compiler to not make output executable.

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- \* Heuristic detection of sub-messages when printing unknown fields in text format.

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- \* Added @Override annotation to generated Java code where appropriate.

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- \* Tru64 support.

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- \* Solaris 10 + Sun Studio fixes.

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- \* Slicing support for repeated scalar fields for the Python API.

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- \* MS Visual Studio error format option.
- \* Detect unordered\_map in stl\_hash.m4.

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- \* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

- \* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- \* Added generation of field number constants.

Wink Saville <wink@google.com>

- \* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

- \* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- \* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- \* Detect whether zlib is new enough in configure script.
- \* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- \* Optimize Java serialization code when writing a small message to a stream.
- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- \* Clean up some Java warnings.
- \* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

- \* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

- \* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

- \* Fixed detection of sched\_yield on Solaris.
- \* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- \* Fixed minor IBM xLC compiler build issues
- \* Added atomicops for AIX (POWER)

## 1.582 google-uuid 1.2.0

### 1.582.1 Available under license :

Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

cd1

wallclockbuilder

dansouza

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# 1.583 opentracing-go 1.2.0

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# 1.584 go-toml 1.9.3

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Changes:

- \* Renamed files from `civil*` to `localtime*`.
- \* Package changed from `civil` to `toml`.
- \* 'Local' prefix added to all structs.

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## 1.585 sarama 1.29.1

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#
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Ethan Mosbaugh <emosbaugh@gmail.com>
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Found in path(s):

\* /opt/cola/permits/1334904685\_1653676440.7415743/0/istack-commons-runtime-3-0-5-jar/META-INF/maven/com.sun.istack/istack-commons-runtime/pom.xml

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bundle-Description: istack common utility code

Implementation-Title: istack common utility code runtime

Bundle-License: [https://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](https://glassfish.java.net/public/CDDL+GPL_1_1.html), [https://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](https://glassfish.java.net/public/CDDL+GPL_1_1.html)

Bundle-SymbolicName: com.sun.istack.commons-runtime

Implementation-Version: 3.0.5

Built-By: build

Bnd-LastModified: 1486772850426

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: com.sun.istack

Bundle-DocURL: <http://www.oracle.com/>

Bundle-Vendor: Oracle Corporation

Import-Package: javax.activation,javax.xml.namespace,javax.xml.stream,org.xml.sax,org.xml.sax.helpers

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-3.2.0.201605172007

Implementation-Vendor: Oracle Corporation

Export-Package: com.sun.istack;uses="javax.activation,javax.xml.stream,org.xml.sax,org.xml.sax.helpers";version="3.0.5",com.sun.istack.logging;version="3.0.5",com.sun.istack.localization;version="3.0.5"

Bundle-Name:

istack common utility code runtime

Bundle-Version: 3.0.5

Implementation-Build-Id: tags/istack-commons-3.0.5-321, 2017-02-11T01:27:24+0100

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_112

Found in path(s):

\* /opt/cola/permits/1334904685\_1653676440.7415743/0/istack-commons-runtime-3-0-5-jar/META-INF/MANIFEST.MF

# 1.596 cast 1.5.0

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# 1.598 zstd-jni 1.5.2-1

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Manifest-Version: 1.0

Automatic-Module-Name: com.github.luben.zstd\_jni

Bnd-LastModified: 1642851452470

Bundle-Description: JNI bindings for Zstd native library that provides fast and high compression lossless algorithm for Java and all JVM languages.

Bundle-License: <https://opensource.org/licenses/BSD-2-Clause>;description=BSD 2-Clause License

Bundle-ManifestVersion: 2

Bundle-Name: zstd-jni

Bundle-NativeCode: darwin/x86\_64/libzstd-jni-1.5.2-1.dylib;osname=MacOS;osname=MacOSX;processor=x86\_64, darwin/aarch64/libzstd-jni-1.5.2-1.dylib;osname=MacOS;osname=MacOSX;processor=aarch64, freebsd/amd64/libzstd-jni-1.5.2-1.so;osname=FreeBSD;processor=amd64, freebsd/i386/libzstd-jni-1.5.2-1.so;osname=FreeBSD;processor=i386, linux/aarch64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=aarch64, linux/amd64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=amd64, linux/arm/libzstd-jni-1.5.2-1.so;osname=Linux;processor=arm, linux/i386/libzstd-jni-1.5.2-1.

so;osname=Linux;processor=i386, linux/mips64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=mips64, linux/ppc64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=ppc64, linux/ppc64le/libzstd-jni-1.5.2-1.so;osname=Linux;processor=ppc64le, linux/s390x/libzstd-jni-1.5.2-1.so;osname=Linux;processor=s390x, win/amd64/libzstd-jni-1.5.2-1.dll;osname=Win32;processor=amd64, win/x86/libzstd-jni-1.5.2-1.dll;osname=Win32;processor=x86

Bundle-SymbolicName: com.github.luben.zstd-jni

Bundle-Vendor: com.github.luben

Bundle-Version: 1.5.2.1

Created-By: 11.0.14 (Debian)

Export-Package: com.github.luben.zstd;version="1.5.2.1",com.github.luben.zstd.util;version="1.5.2.1"

Implementation-Title: zstd-jni

Implementation-Vendor: com.github.luben

Implementation-Vendor-Id: com.github.luben  
Implementation-Version: 1.5.2-1  
Import-Package: org.osgi.framework;resolution:=optional  
Private-Package: linux.amd64,linux.i386,linux.aarch64,linux.arm,linux.ppc64,linux.ppc64le,linux.mips64,linux.s390x,darwin.x86\_64,darwin.armch64,win.amd64,win.x86,freebsd.amd64,freebsd.i386  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=11.0))"  
"  
Specification-Title: zstd-jni  
Specification-Vendor: com.github.luben  
Specification-Version: 1.5.2-1  
Tool: Bnd-4.0.0.201805111645

Found in path(s):

\* /opt/cola/permits/1337889408\_1654234488.39181/0/zstd-jni-1-5-2-1-jar/META-INF/MANIFEST.MF

# 1.599 keyutils 1.6-6ubuntu1.1

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
```

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this  
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show  
w' and `show c' should show the appropriate  
parts of the General Public License. Of course, the commands you use may  
be called something other than `show w' and `show c'; they could even be  
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your  
school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in



non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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d) If a facility

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

# 1.600 go-openapi-jsonreference 0.20.0

## 1.600.1 Available under license :

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# 1.601 e2fsprogs 1.45.5-2ubuntu1.1

## 1.601.1 Available under license :

This package was added to the e2fsprogs debian source package by  
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the static EXT2  
file system consistency checker (e2fsck.static). The EXT2 utilities  
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card  
<card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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#

# This is a Makefile stub which handles the creation of BSD shared libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's;lib/;;'"/\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"

@\$(INSTALL\_PROGRAM) \$(BSD\_LIB) \

```
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

```
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

clean::

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.  
+ trivial database library - standalone version

- trivial database library - private includes

-

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+ Copyright (C) Andrew Tridgell 1999-2005  
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Gadi Oxman, August 1995

-----  
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```
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```

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```
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```

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before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o

23-June-2007

---

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the `ss` command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
[tsx-11.mit.edu/pub/linux/packages/ext2fs/](http://tsx-11.mit.edu/pub/linux/packages/ext2fs/)

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
[tsx-11.mit.edu/pub/linux/packages/ext2fs/](http://tsx-11.mit.edu/pub/linux/packages/ext2fs/)

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# 1.602 google-cloud-go 0.97.0

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute
```

```
import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"
```

```
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/option"
```



```

"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
)

var
newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get []gax.CallOption
 TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently.
// However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

```

```

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

//
// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However,
// fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {

```

```

clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
 return nil, err
}

c := &licenseCodesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gopic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
return nil
}

//
// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
}

```

```

}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp,
 err := c.httpClient.Do(httpReq)
 if err != nil {
 return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return nil, err
 }

 unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.LicenseCode{}

 if err := unmarshalOptions.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
 }
 return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is

```

```

intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err
 := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return nil, err
 }

 unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.TestPermissionsResponse{}

 if err := unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
 }
}

```

```

return
rsp, nil
}
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {

```

```

Delete []gax.CallOption
Get []gax.CallOption
GetIamPolicy []gax.CallOption
Insert []gax.CallOption
List []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption)
 (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
 error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
 error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions
 *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

```

```

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party
// partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating

```



Cloud Marketplace images.

```
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}
```

// SetIamPolicy sets the access control policy on the specified resource.

Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

```
type licensesRESTClient struct {
 // The http endpoint to connect
 to.
 endpoint string
```

```
 // The http client.
 httpClient *http.Client
```

```
 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
}
```

// NewLicensesRESTClient creates a new licenses rest client.

//

// The Licenses API.

```
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
 return nil, err
 }
}
```

```
c := &licensesRESTClient{
 endpoint: endpoint,
```

```

 httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()),
 }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gopic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified
// license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

```

```

params := url.Values{ }
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp);
err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)

```

```

(*computepb.License, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for
 k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return nil, err
 }

 unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.License{}

 if err := unmarshalOptions.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
 }
 return rsp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl,
 _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

```

```

params := url.Values{ }
if req != nil && req.OptionsRequestedPolicyVersion != nil {
 params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
}

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true,
DiscardUnknown: true}
rsp := &computepb.Policy{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {

```

```

m := protojson.MarshalOptions{ AllowPartial: true }
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if
err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
rsp := &compute.Operation{ }

if err := unm.Unmarshal(buf, rsp); err != nil {

```

```

return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of

publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
resp := &computepb.LicensesListResponse{}
if pageToken != "" {
req.PageToken = proto.String(pageToken)
}
if pageSize > math.MaxInt32 {
req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses",
req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}
}

```

```

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
 return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if
err != nil {
 return nil, "", err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, "", err
}

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
 return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it

```



```

}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func
(c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
..gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{ AllowPartial: true }
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
 }

 buf,
err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return nil, err
 }

 unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
 rsp := &computepb.Policy{ }

```

```

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{ AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return nil, err
 }
}

```

```

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 //
 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{ }

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator)
Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
 return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

```

```

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use
 client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {

```

```

ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See
 https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 //
 // TODO: Use resp.
 _ = resp
}

```

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer
 c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
 resp, err := c.Delete(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

```

```

}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy()
{
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
}

```

```

}
defer c.Close()

req := &computepb.InsertLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
resp, err := c.Insert(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

```

```

func ExampleLicensesClient_List() {
ctx :=
context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

```

```

req := &computepb.ListLicensesRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
resp, err := it.Next()
if err == iterator.Done {
break
}
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
}

```

```

func ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
}

```

```

defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func
ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See
 https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

```

# 1.603 stackexchange-wmi 0.0.0-20190523213315-cbe66965904d

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## 1.612 go-errors-errors 1.4.0

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## 1.613 python-certifi 2021.05.30

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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Support for streaming Protocol Buffer messages for the Go language (golang).

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\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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\* javax.servlet:javax.servlet-api  
\* javax.annotation:javax.annotation-api  
\* javax.transaction:javax.transaction-api  
\* javax.websocket:javax.websocket-api

-----  
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN

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\* java.sun.security.ssl

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org.ow2.asm:asm-commons

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

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org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

-----

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org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.619 jetty-util 9.4.48.v20220622

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org.apache.tomcat:tomcat-jasper-el

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org.eclipse.jetty.toolchain:jetty-schemas

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.  
\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.  
\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.621 jetty-continuation 9.4.48.v20220622

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

-----

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.622 golang-jwt 3.2.1+incompatible

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## 1.623 zlib 1.2.11

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

\*/

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```

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```
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```

<signature of Ty Coon>, 1 April 1989

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Version 3, 29 June 2007

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```
COPYING.other *- org *-
#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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# 1.629 sqlx 1.3.5

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# 1.633 gopkg.in-check 1.0.0-20190902080502-41f04d3bba15

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# 1.634 jakarta-inject-api 1.0.5

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## 1.635 go.uber.org/atom 1.10.0

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## 1.636 chardet 4.0.0

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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# 1.637 html5lib 1.1

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# 1.639 webencodings 0.5.1

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python-webencodings

=====

This is a Python implementation of the WHATWG Encoding standard  
<<http://encoding.spec.whatwg.org/>>`\_.

\* Latest documentation: <http://packages.python.org/webencodings/>

\* Source code and issue tracker:

<https://github.com/gsnedders/python-webencodings>  
\* PyPI releases: <http://pypi.python.org/pypi/webencodings>  
\* License: BSD  
\* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules. For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration. The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python's.

Found in path(s):  
\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst  
No license file was found, but licenses were detected in source scan.

```
from setuptools import setup, find_packages
import io
from os import path
import re
```

```
VERSION = re.search("VERSION = '([^\']+)"', io.open(
 path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
 encoding='utf-8'
).read().strip()).group(1)
```

```
LONG_DESCRIPTION = io.open(
 path.join(path.dirname(__file__), 'README.rst'),
 encoding='utf-8'
).read()
```

```
setup(
 name='webencodings',
 version=VERSION,
 url='https://github.com/SimonSapin/python-webencodings',
 license='BSD',
 author='Simon Sapin',
 author_email='simon.sapin@exyr.org',
```



```

maintainer='Geoffrey Sneddon',
maintainer_email='me@gsnedders.com',
description='Character encoding aliases for legacy web content',
long_description=LONG_DESCRIPTION,
classifiers=[
 'Development Status :: 4 - Beta',
 'Intended Audience :: Developers',
 'License :: OSI Approved :: BSD License',
 'Programming Language
:: Python',
 'Programming Language :: Python :: 2',
 'Programming Language :: Python :: 2.6',
 'Programming Language :: Python :: 2.7',
 'Programming Language :: Python :: 3',
 'Programming Language :: Python :: 3.3',
 'Programming Language :: Python :: 3.4',
 'Programming Language :: Python :: 3.5',
 'Programming Language :: Python :: 3.6',
 'Programming Language :: Python :: Implementation :: CPython',
 'Programming Language :: Python :: Implementation :: PyPy',
 'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

```

Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
```

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"""

webencodings.mklables

~~~~~

Regenerate the webencodings.labels module.

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"""

```
import json
```

```
try:
```

```
 from urllib import urlopen
```

```
except ImportError:
```

```
 from urllib.request import urlopen
```

```

def assert_lower(string):
 assert string == string.lower()
 return string

def generate(url):
 parts = []
 """
 webencodings.labels
    ~~~~~

    Map encoding labels to their name.

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    """

    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

    LABELS = {
    """
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        ' %s:%s %s,\n' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}')
    return ".join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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```

Found in path(s):

- \* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
- \* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/\_\_init\_\_.py
- \* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
- \* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x\_user\_defined.py

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Metadata-Version: 1.1

Name: webencodings

Version: 0.5.1

Summary: Character encoding aliases for legacy web content

Home-page: <https://github.com/SimonSapin/python-webencodings>

Author: Geoffrey Sneddon

Author-email: [me@gsnedders.com](mailto:me@gsnedders.com)

License: BSD

Description: python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard`  
<<http://encoding.spec.whatwg.org/>>`\_.

- \* Latest documentation: <http://packages.python.org/webencodings/>
- \* Source code and issue tracker:  
<https://github.com/gsnedders/python-webencodings>
- \* PyPI releases: <http://pypi.python.org/pypi/webencodings>
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In order to be compatible with legacy web content  
when interpreting something like ``Content-Type: text/html; charset=latin1``,  
tools need to use a particular set  
of aliases for encoding labels  
as well as some overriding rules.  
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually  
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence  
over any other encoding declaration.  
The Encoding standard defines all such details so that implementations do  
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,  
but the actual implementation for encoders and decoders is Python's.

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta  
Classifier: Intended Audience :: Developers  
Classifier: License :: OSI Approved :: BSD License  
Classifier: Programming Language :: Python  
Classifier: Programming Language :: Python :: 2  
Classifier: Programming Language :: Python :: 2.6  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python  
:: 3.3  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: Implementation :: CPython  
Classifier: Programming Language :: Python :: Implementation :: PyPy  
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO

# 1.640 pep517 0.12.0

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# 1.641 six 1.16.0

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The primary author and maintainer of six is Benjamin Peterson. He would like to  
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## 1.643 python-certifi 2021.10.08

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.644 protobuf 1.27.1

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# 1.648 kustomize-kyaml 0.13.9

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Manifest-Version: 1.0

Bnd-LastModified: 1655327871630

Build-Jdk: 11.0.15

Built-By: fabian

Bundle-Description: The Prometheus Java Suite: Client Metrics, Exposition, and Examples

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>  
Bundle-ManifestVersion: 2  
Bundle-Name: Prometheus Java Span Context Supplier - OpenTelemetry  
Bundle-SymbolicName: io.prometheus.simpleclient\_tracer\_otel  
Bundle-Version: 0.16.0  
Created-By: Apache Maven Bundle Plugin  
Export-Package: io.prometheus.client.exemplars.tracer.otel;uses:="io.prometheus.client.exemplars.tracer.common";version="0.16.0"  
Import-Package: io.opentelemetry.api.trace;resolution:=optional,io.prometheus.client.exemplars.tracer.common;version="[0.16,1)"  
Tool: Bnd-2.1.0.20130426-122213

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Found in path(s):

\* /opt/cola/permits/1417007584\_1663222288.9837213/0/simpleclient-tracer-otel-agent-0-16-0-sources-jar/META-INF/maven/io.prometheus/simpleclient\_tracer\_otel\_agent/pom.xml

## 1.663 simpleclient-hotspot 0.16.0

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Manifest-Version: 1.0

Bnd-LastModified: 1655327979490

Build-Jdk: 11.0.15

Built-By: fabian

Bundle-Description: Collectors of data from Java Hotspot.

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Prometheus Java Simpleclient Hotspot

Bundle-SymbolicName: io.prometheus.simpleclient\_hotspot

Bundle-Version: 0.16.0

Created-By: Apache Maven Bundle Plugin

Export-Package: io.prometheus.client.hotspot;uses:="io.prometheus.client";version="0.16.0"

Import-Package: com.sun.management,io.prometheus.client;version="[0.16,1)",javax.management,javax.management.openmbean

Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

\* /opt/cola/permits/1417007560\_1663222261.4278126/0/simpleclient-hotspot-0-16-0-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1417007560\_1663222261.4278126/0/simpleclient-hotspot-0-16-0-jar/META-INF/maven/io.prometheus/simpleclient\_hotspot/pom.xml

## 1.664 term 0.0.0-20220808134915-

### 39b0c02b01ae

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Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

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# 1.668 go-md2man 2.0.2

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## 1.669 google-go-cmp 0.5.9

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## 1.670 go-openapi-swag 0.22.3

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## 1.671 x-tools 0.1.12

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```

package hooks

```
import (  
    "bytes"  
    "io/ioutil"  
    "os/exec"  
    "runtime"  
    "testing"  
  
    "golang.org/x/tools/internal/testenv"  
)  
  
func TestLicenses(t *testing.T) {  
    // License text differs for older Go versions because staticcheck isn't  
    // supported for those versions.  
    testenv.NeedsGo1Point(t, 17)  
  
    if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {  
        t.Skip("generating licenses only works on Unices")  
    }  
    tmp, err := ioutil.TempFile("", "")  
    if err != nil {  
        t.Fatal(err)  
    }  
    tmp.Close()  
  
    if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {  
        t.Fatalf("generating licenses failed: %q, %v", out, err)  
    }  
  
    got, err := ioutil.ReadFile(tmp.Name())  
    if err != nil {  
        t.Fatal(err)  
    }  
    want, err := ioutil.ReadFile("licenses.go")  
    if err != nil {  
        t.Fatal(err)  
    }  
    if !bytes.Equal(got, want) {  
        t.Error("combined  
license text needs updating. Run: `go generate ./internal/hooks` from the gopls module.")  
    }  
}
```

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//go:build go1.18

// +build go1.18

// Package copyright checks that files have the correct copyright notices.

package copyright

```
import (  
    "go/ast"  
    "go/parser"  
    "go/token"  
    "io/fs"  
    "io/ioutil"  
    "path/filepath"  
    "regexp"  
    "strings"  
)
```

```
func checkCopyright(dir string) ([]string, error) {  
    var files []string  
    err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {  
        if err != nil {
```



```

return err
}
if d.IsDir() {
// Skip directories like ".git".
if strings.HasPrefix(d.Name(), ".") {
return filepath.SkipDir
}
// Skip any directory that starts with an underscore, as the go
// command would.
if strings.HasPrefix(d.Name(), "_") {
return filepath.SkipDir
}
return nil
}
needsCopyright, err := checkFile(dir, path)
if err != nil {
return err
}
if needsCopyright {
files
= append(files, path)
}
return nil
})
return files, err
}

```

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.  
Use of this source code is governed by a BSD-style  
license that can be found in the LICENSE file.`)

```

func checkFile(toolsDir, filename string) (bool, error) {
// Only check Go files.
if !strings.HasSuffix(filename, ".go") {
return false, nil
}
// Don't check testdata files.
normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
if strings.Contains(normalized, "/testdata/") {
return false, nil
}
// goyacc is the only file with a different copyright header.
if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
return false, nil
}
content, err := ioutil.ReadFile(filename)
if err != nil {
return false, err
}
}

```

```

}
fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}
// Don't require headers
on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}
shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\?.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return
    false
}

```

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package hooks
```

```
const licensesText = `
-- github.com/BurntSushi/toml COPYING --
```

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```

```
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```

```
package copyright
```

```
import (\n    "os"\n    "path/filepath"\n    "strings"\n    "testing"\n)
```

```
func TestToolsCopyright(t *testing.T) {\n    cwd, err := os.Getwd()\n    if err != nil {\n        t.Fatal(err)\n    }\n    tools := filepath.Dir(cwd)\n    if !strings.HasSuffix(filepath.Base(tools), "tools") {\n        t.Fatalf("current working directory is %s, expected tools", tools)\n    }\n    files, err := checkCopyright(tools)\n    if err != nil {\n        t.Fatal(err)\n    }\n    if len(files) > 0 {\n        t.Errorf("The following files are missing copyright notices:\\n%s", strings.Join(files, "\\n"))\n    }\n}
```

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* Contributors:
*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contributions for
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
into account
*       bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*   Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*       bug 386692 - Missing "unused" warning on "autowired" fields
*   Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*       bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/TypeIds.java

```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/classfmt/RecordComponentInfo.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/env/IRecordComponent.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/model/ElementTypeElement.java
```

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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ModuleStatement.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredOpensStatement.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
- \*
- /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java
- \*
- /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java

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jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithTypeAnnotations.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/flow/FieldInitsFakingFlowContext.java  
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* Contributors:  
*   wharley@bea.com - initial API and implementation  
*   IBM Corporation - fix for 342598  
*   IBM Corporation - Java 8 support  
*/
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/apt/model/ArrayTypeImpl.java  
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jar/org/eclipse/jdt/internal/compiler/env/ISourceModule.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/env/IBinaryModule.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/env/IUpdatableModule.java

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jar/org/eclipse/jdt/internal/compiler/apt/model/RecordComponentElementImpl.java
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*   wharley@bea.com - initial API and implementation  
*   philippe.marschall@netcetera.ch - Fix for 338370  
*   IBM Corporation - Fix for validating relative name  
*/
```

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```
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchFilerImpl.java
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java  
\*  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java

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jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/parser/RecoveredStatement.java

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\* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking

\* Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 407191 - [1.8] Binary access support for type annotations

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfo.java

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\* Stephan Herrmann - Contribution for  
\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* Bug 328281 - visibility leaks not detected when analyzing unused field in private class

\* Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries

\* Bug 354536 - compiling package-info.java still depends on the order of compilation units

\* Bug 349326 - [1.7] new warning for missing try-with-resources

\* Bug

358903 - Filter practically unimportant resource leak warnings

\* Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class

\* Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

\* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

\* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class

\* Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens  
"sometimes"

\* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -

Contributions for

\* Bug 415821 - [1.8][compiler] CLASS\_EXTENDS target type annotation missing for anonymous  
classes

\* het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type

\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

\* Bug 473178

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\* Stephan Herrmann - Contributions for

\* bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor

\* bug 368546 - [compiler][resource] Avoid

remaining false positives found when compiling the Eclipse SDK

\* bug 383690 - [compiler] location of error re uninitialized final field should be aligned

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator

\* Ulrich Grave <ulrich.grave@gmx.de> - Contributions

for

\* bug 386692 - Missing "unused" warning on "autowired" fields

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*   Stephan Herrmann - Contribution for
*     Bug 440474 - [null] textual encoding of external null annotations
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/JrtFileSystem.java

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\* Stephan Herrmann - Contributions for

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

\* Bug 392099

- [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface

\* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations

\* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards

\* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations

\* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

\* Bug 400874 - [1.8][compiler]

Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"

\* Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch

\* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType

\* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error

\* Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument

\* Bug 426792 - [1.8][inference][impl] generify new type inference engine

\* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>

\* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource

\* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected

- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
  - \* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
  - \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
  - \* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
  - \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
  - \* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
  - \* Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
  - \* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
  - \* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- \*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedTypeBinding.java

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\* Stephan Herrmann - Contribution for

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 370930 - NonNull annotation not considered for enhanced for loops

\* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 393719 - [compiler] inconsistent warnings

on iteration variables

\* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

\* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch

\* Jesper S Moller - Contribution for

\* bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)

\* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForEachStatement.java

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 *   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
 */
```

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```
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseBatchRequestor.java  
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\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 435570 - [1.8][null] @NonNullByDefault

illegally tries to affect "throws E"

\* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location

\* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

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\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

\* Bug 473178

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 *     bug 185682 - Increment/decrement operators mark local variables as read
 *     bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
 *     bug 331649 - [compiler][null] consider null annotations for fields
 *     bug 383368 - [compiler][null] syntactic null analysis for field references
 *     bug 392384 - [1.8][compiler][null] Restore nullness
 *     info from type annotations in class files
 *     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 *     Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
 *     Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
 */
```

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Reference.java  
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 *   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 *     bug 407191 - [1.8] Binary access support for type annotations
 *   Stephan Herrmann - Contribution for
 */
```

\* Bug 440474 - [null] textual encoding of external null annotations  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryType.java

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\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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\* IBM Corporation - Fix for bug 328575  
\* het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()

\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundEnvImpl.java



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 *     bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
 *     bug 349326 - [1.7] new warning for missing try-with-resources
 *     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 *     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
 *     Bug 415790
 *     - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
 */
```

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*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
```

```
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\* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment

\* bug 186342 - [compiler][null] Using annotations for null checking

\*/

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\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 370639 - [compiler][resource] restore the default for resource leak warnings

\* bug 265744 - Enum switch should warn about missing default

\* bug 374605 - Unreasonable warning for enum-based switch statements

\* bug 381443

- [compiler][null] Allow parameter widening from @NonNull to unannotated

\* Bug 441208 - [1.8][null] SuppressWarnings("null") does not suppress / marked Unnecessary

\* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),

Collection#remove(Object) et al.

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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class

\*\*\*\*\*/

Found in path(s):

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\* Stephan Herrmann - Contribution for  
\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
\* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds  
\* Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard  
\* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker  
hint from applicability analysis  
\* Bug 456924 - StackOverflowError during compilation  
\* Bug 462790 - [null] NPE in Expression.computeConversion()  
\* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version  
\* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type  
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*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     bug 388281 - [compiler][null] inheritance of null annotations as an option
*     bug 388795 - [compiler] detection of name clash depends on order of super interfaces
*     bug 388739 - [1.8][compiler] consider default methods when detecting whether
a class needs to be declared abstract
*     bug 390883 - [1.8][compiler] Unable to override default method
*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*     bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
*     bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*     bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
*     bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*     bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*     bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*     Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*     Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
*     Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*     Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in
@NonNullByDefault
*     Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*     Bug 446442 - [1.8] merge null annotations from super methods
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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\* Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 317046 - Exception during debugging when hover mouse over a field

\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

\* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class

files

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations

\* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"

\* Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument

\* Bug 426792 - [1.8][inference][impl] generify new type inference engine

\* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler

\* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

\* Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion

\* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.

\* Bug 435962 - [RC2] StackOverFlowError when building

\* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

\* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable

\* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

\* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations

\* Jesper S Moller <jesper@selskabet.org> - Contributions for

\* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

\* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

\*

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeBinding.java

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\* Stephan Herrmann - Contributions for

\* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 265744 - Enum switch should warn about missing default

\* bug 374605 - Unreasonable warning for enum-based switch statements

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\*\*\*\*\*

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SwitchStatement.java

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\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource

\* bug 358903 - Filter practically unimportant resource leak warnings

\* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 400874 - [1.8][compiler] Inference infrastructure



should evolve to meet JLS8 18.x (Part G of JSR335 spec)

- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
- \* Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
- \* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
- \* Bug 435962 - [RC2] StackOverflowError when building
- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

\*\*\*\*\*/

Found in path(s):

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\* Jesper S Moller - Contributions for

\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/Opcodes.java

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\* Stephan Herrmann - Contribution for  
\* Bug 440687 - [compiler][batch][null] improve command line option for external annotations  
\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for  
\* Bug 473178  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/batch/ClasspathDirectory.java  
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\* Contributors:  
\* tyeung@bea.com - initial API and implementation  
\* olivier\_thomann@ca.ibm.com - add hashCode() and equals(..) methods  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/env/ClassSignature.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java  
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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceFailureException.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ReductionResult.java

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\* wharley@bea.com - derived base class from BatchMessengerImpl

\*

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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BaseMessengerImpl.java

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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java

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*     Bug 473178  
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java
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*   Stephan Herrmann - Contribution for  
*     bug 383368 - [compiler][null] syntactic null analysis for field references  
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/antadapter/messages.properties
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/batch/messages.properties
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*     Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*     Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*/
```

/\* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a with a single binding, e.g:

```
@T Z;           type => Z annotations => [[@T]]
  @T Y.@T Z     type => Z annotations => [[@T][@T]]
  @T X.@T Y.@T Z   type => Z annotations => [[@T][@T][@T]]
  java.lang.@T X.@T Y.@T Z   type => Z annotations => [][@T][@T][@T]
```

in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their layout for proper attribution.



\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotatableTypeSystem.java

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\* Erling Ellingsen - patch for bug 125570

\* Stephan Herrmann - Contribution for

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class

\* Sebastian Zarnekow - Contribution for

\* Bug 544921 - [performance] Poor performance with large source files

\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

\* bug 292478 - Report potentially null across variable assignment

- \* bug 335093 - [compiler][null] minimal hook for future null annotation support
- \* bug 349326 - [1.7] new warning for missing try-with-resources
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 358903 - Filter practically unimportant resource leak warnings
- \* bug 370639 - [compiler][resource] restore the default for resource leak warnings
- \* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- \* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- \* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 383368 - [compiler][null] syntactic null analysis for field references
- \* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- \* Bug 430150 - [1.8][null] stricter checking against type variables
- \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- \* Jesper S Moller - Contributions for
- \* Bug 378674 - "The method can be declared as static" is wrong
- \* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- \* Bug 529556 - [18.3] Add content assist support for 'var' as a type
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
- \* Bug 426616 - [1.8][compiler] Type Annotations, multiple problems

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LocalDeclaration.java

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\* Stephan Herrmann - Contributions for

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

- \* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
  - \* bug 383368 - [compiler][null] syntactic null analysis for field references
  - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
  - \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
  - \* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
  - \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
  - \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
  - \* Jesper S Moller <jesper@selskabet.org> - Contributions for
  - \* bug 378674 - "The method can be declared as static" is wrong
- \*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExpressionContext.java

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*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 367203 - [compiler][null] detect assigning null to nonnull argument
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*     bug 365531 - [compiler][null] investigate alternative strategy for internally
encoding nullness defaults
*     bug 388281 - [compiler][null] inheritance of null annotations as an option
*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*     Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*     Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*     Bug 443347 - [1.8][null]
@NonNullByDefault should not affect constructor arguments of an anonymous instantiation
*     Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*     Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*     Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
*     Bug 471611 - Error on hover on call to generic method with null annotation
*   Jesper Steen Moller - Contributions for
*     Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/MethodBinding.java

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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryAnnotation.java

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- \* Stephan Herrmann - Contribution for bug 295551
- \* Jesper S Moller - Contributions for
- \* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- \* Frits Jalvingh - contributions for bug 533830.
- \* Red Hat Inc. - add module-info Javadoc support

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- \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java

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\* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

\* Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference

expressions

\* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)

\* Stephan Herrmann - Contribution for

\* bug 402028 - [1.8][compiler] null analysis for reference

expressions

\* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 415850 - [1.8] Ensure RunJDTCORETests can cope with null annotations enabled

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"

\* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to

Files::walk

\* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.

\* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.

\* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method

\* Bug 427438

- [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

\* Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J

involved

\* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

\* Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference

- \* Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
  - \* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
  - \* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
  - \* Bug 438945 - [1.8] NullPointerException
- InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
  - \* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
  - \* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
  - \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
  - \* Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
  - \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
  - \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ReferenceExpression.java

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*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*     Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*     Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*****/
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in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Archive.java

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\* bug 186342 - [compiler][null] Using annotations for null checking  
\* bug 331649 - [compiler][null] consider null annotations for fields  
\* bug 383368 - [compiler][null] syntactic null analysis for field references  
\* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions  
\* bug 403086 - [compiler][null] include the effect of 'assert'  
in syntactic null analysis for fields

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\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
\* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check  
\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops  
\* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment

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jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.java

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* Stephan Herrmann - Contributions for  
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations  
* bug 401030 - [1.8][null] Null analysis support for lambda methods.  
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations  
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mark local variables as read

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\* Bug 407191 - [1.8] Binary access support for type annotations

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        - \* bug 349326 - [1.7] new warning for missing try-with-resources
        - \* bug 186342 - [compiler][null] Using annotations for null checking
        - \* bug 365519 - editorial cleanup after bug 186342 and bug 365387
        - \* bug 358903 - Filter practically unimportant resource leak warnings
        - \* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
        - \* bug 388281 - [compiler][null] inheritance of null annotations as an option
        - \* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
        - \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
        - \* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
        - \* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
        - \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
        - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
        - \* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
        - \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
        - \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
        - \* Bug
          - 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
          - \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
          - \* Bug 426792 - [1.8][inference][impl] generify new type inference engine
          - \* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
          - \* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
          - \* Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
          - \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
          - \* Bug 431581 - Eclipse compiles what it should not
          - \* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
          - \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
          - \* Bug 446442 - [1.8] merge null annotations from
            - super methods
              - \* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
              - \* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
        - \* Jesper S Moller - Contributions for
          - \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
          - \* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
          - \* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
        - \* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
          - \* bug 386692 - Missing "unused" warning on "autowired" fields
        - \* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
          - \* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
        - \* Sebastian Zarnekow - Contributions

for

\* bug 544921 - [performance] Poor performance with large source files  
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\* Stephan Herrmann - Contribution for  
\* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda  
\*\*\*\*\*/

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* IBM Corporation - initial API and implementation  
* Stephan Herrmann - Contributions for  
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK  
* bug 370639 - [compiler][resource] restore the default for resource leak warnings  
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'  
* Bug 417758 - [1.8][null] Null safety compromise during array creation.  
* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)  
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations  
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
work)  
*/
```

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayInitializer.java  
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\* IBM Corporation - initial API and implementation  
\* Stephan Herrmann - Contribution for  
\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files  
\* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations  
\* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables  
\* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"  
\* Bug 425783 - An  
internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError  
\* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables  
\* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/RawTypeBinding.java  
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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for  
\* bug 185682 - Increment/decrement operators mark local variables as read  
\* bug 186342 - [compiler][null] Using annotations for null checking  
\* bug 365519 - editorial cleanup after bug 186342 and bug 365387



- \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 345305 - [compiler][null]
- Compiler misidentifies a case of "variable can only be null"
- \* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
- \* Bug 458396 - NPE in CodeStream.invoke()
- \* Jesper S Moller - Contributions for
- \* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
- \* bug 331649 - [compiler][null] consider null annotations for fields
- \* bug 383368 - [compiler][null] syntactic null analysis for field references
- \* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* bug 378674 - "The method can be declared as static" is wrong

\*\*\*\*\*/

Found in path(s):

- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedNameReference.java

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\* Stephan Herrmann - Contributions for

\* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used

\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 358903 - Filter practically unimportant resource

leak warnings

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 370639 - [compiler][resource] restore the default for resource leak warnings

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

- \* Bug 424727 - [compiler][null] NullPointerException in  
nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
- \* Bug 424710  
- [1.8][compiler] CCE in SimpleNameReference.localVariableBinding
- \* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- \* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload  
context
- \* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
- \* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
- \* Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
- \* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- \* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
- \* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException  
instead of IOException)
- \* Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional  
expression
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for  
bug 378674 - "The method can be declared as static" is wrong
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
Bug 383624 - [1.8][compiler] Revive  
code generation support for type annotations (from Olivier's work)
- \* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic  
bridge method
- \* Till Brychcy - Contributions for  
bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
- \* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for  
Bug 473178

\*\*\*\*\*/

Found in path(s):

\*/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/AllocationExpression.java

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```
*     bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
```

```
*     bug 186342 - [compiler][null] Using annotations for null checking
```

```
*     bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
```

```
*     bug 370639 - [compiler][resource] restore the default for resource leak warnings
```

```
*     bug 388996 - [compiler][resource] Incorrect
```

```
'potential resource leak'
```

```
*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
```

```
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
```

```
*     Bug 424710 - [1.8][compiler] CCE in SimpleNameReference.localVariableBinding
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*     Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
```

```
*     Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
```

```
*     Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
```

```
*     Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
```

```
*     Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
```

```
*     Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
```

```
*     Bug 427438 - [1.8][compiler]
```

```
NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
```

```
*     Bug 428352 - [1.8][compiler] Resolution errors don't always surface
```

```
*     Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
```

```
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
```

\* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExplicitConstructorCall.java

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\* Stephan Herrmann - Contributions for

\* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

\* bug 345305 - [compiler][null]

Compiler misidentifies a case of "variable can only be null"

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

\* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

\* Bug 455723 - Nonnull argument not correctly inferred in loop

\* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch

\* Bug 446691 - [1.8][null][compiler] NullPointerException in SimpleNameReference.analyseCode

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FlowContext.java

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- \* Stephan Herrmann - Contributions for
- \* bug 349326 - [1.7] new warning for missing try-with-resources
- \* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
- \* bug 358903 - Filter practically unimportant resource leak warnings
- \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 370639 - [compiler][resource]
- restore the default for resource leak warnings
- \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- \* bug 379784 - [compiler] "Method can be static" is not getting reported
- \* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- \* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
- \* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
- \* Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
- \* Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding with try-catch
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* bug 378674 - "The method can be declared as static" is wrong
- \* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BlockScope.java

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\* Stefan Xenos (Google) - Initial implementation

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\* Contributors:

\* Walter Harley - initial API and implementation

\* IBM Corporation - fix for 342598, 382590

\* Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555

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Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/TypesImpl.java

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 185682 - Increment/decrement operators mark local variables as read

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null

\* Bug 400874 - [1.8][compiler]

Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

- \* Bug 458396 - NPE in CodeStream.invoke()
- \* Jesper S Moller - Contributions for
- \* Bug 378674 - "The method can be declared as static" is wrong
- \* Robert Roth <robert.roth.off@gmail.com> - Contributions for
- \* Bug 361039 - NPE in FieldReference.optimizedBooleanConstant

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FieldReference.java

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- \* Stephan Herrmann - Contribution for
- \* Bug 440687 - [compiler][batch][null] improve command line option for external annotations

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- \* Stephan Herrmann - Contributions for
- \* Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)

- \* Bug 388630 - @NonNull diagnostics at line 0
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug 424727 - [compiler][null] NullPointerException  
in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
- \* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
- \* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends  
the outer class
- \* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
- \* Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown  
when using MethodSource
- \* Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException

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\* Stephan Herrmann - Contribution for  
\* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"  
\* Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression  
\* Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter  
\* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.  
\* Andy  
Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas  
\* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version  
\* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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\* IBM Corporation - Bug fixes

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java  
\*

/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java

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\* Contributors:  
\* IBM Corporation - initial API and implementation  
\* Jesper Steen Moller - Contributions for:  
\* Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SingleMemberAnnotation.java

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\* Stephan Herrmann - Contributions for

\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 417758 - [1.8][null] Null safety compromise during array creation.

\* Bug

427163 - [1.8][null] bogus error "Contradictory null specification" on varargs

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array

\*\*\*\*\*/

Found in path(s):

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for  
\* bug 185682 - Increment/decrement operators mark local variables as read  
\* bug 331649 - [compiler][null] consider null annotations for fields  
\* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.  
\* Bug 447088 - [null] @Nullable on fully qualified field type is ignored  
\* Bug 435805 - [1.8][compiler][null]  
Java 8 compiler does not recognize declaration style null annotations  
\* Bug 458396 - NPE in CodeStream.invoke()  
\* Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning  
\* Till Brychcy - Contribution for  
\* bug 467094 - [1.8][null] TYPE\_USE NullAnnotations of array contents are applied to field.  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/FieldBinding.java  
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\* Contributors:  
\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 407191 - [1.8] Binary access support for type annotations  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithTypeAnnotations.java  
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\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for  
\* Bug 473178  
\*\*\*\*\*/

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jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExpressionFormula.java  
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\* Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for  
\* bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java  
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 \* Jesper S Moller - Contributions for  
 \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression  
 \* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment  
 \* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)  
 \* Stephan Herrmann - Contribution for  
 \* bug 401030 - [1.8][null] Null analysis support for lambda methods.  
 \* Bug 392099  
 - [1.8][compiler][null] Apply null annotation on types for null analysis  
 \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations  
 \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
 \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"  
 \* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType  
 \* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression  
 \* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation  
 \* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType  
 \* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error  
 \* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.  
 \* Bug 426563 - [1.8] AIOOBE when method with error  
 invoked with lambda expression as argument  
 \* Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is  
 applicable here"  
 \* Bug 427438 - [1.8][compiler] NPE at  
 org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)  
 \* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>  
 \* Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda  
 compatibility constraint  
 \* Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument  
 \* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException  
 instead of IOException)  
 \* Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac  
 \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type  
 variables  
 \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull  
 \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression  
 \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops  
 \* Bug 455723 - Nonnull argument not correctly inferred in loop  
 \* Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type  
 \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
 \* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas  
 \*\*\*\*\*/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java
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*****/
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*   Stephan Herrmann - Contributions for
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*****/
```

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```

- \* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- \* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
- \* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
- \* Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
- Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- \* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
- \* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
- \* Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
- \* Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
- \* Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
- \* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
- \* Bug 434556 - Broken class file generated for incorrect annotation usage
- \* Bug 442416
- \$deserializeLambda\$ missing cases for nested lambdas
- \* Stephan Herrmann - Contribution for
- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- \* Olivier Tardieu tardieu@us.ibm.com - Contributions for
- \* Bug 442416 - \$deserializeLambda\$ missing cases for nested lambdas

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jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java

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jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java

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jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/codegen/Label.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/codegen/CaseLabel.java  
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\* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/VoidTypeBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.java  
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\* bug 331649 - [compiler][null] consider null annotations for fields  
\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
\* Bug 458396 - NPE in CodeStream.invoke()  
\*\*\*\*\*/

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\* Jesper S Moller - Contributions for  
\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335  
\* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile  
\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas  
\*\*\*\*\*/

Found

in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileConstants.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java  
\*

/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java

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\* bug 332637 - Dead Code detection removing code that isn't dead  
\* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis  
\* bug 349326 - [1.7] new warning for missing try-with-resources  
\* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points  
\*/

- \* bug 358903 - Filter practically unimportant resource leak warnings
- \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- \* bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
- \* bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
- \* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
- \* bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
- \* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
- \* Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
- \* Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
- \* Jesper Steen Moller - Contributions for
- \* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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\* Stephan Herrmann - Contribution for

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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jar/org/eclipse/jdt/internal/compiler/ast/CombinedBinaryExpression.java
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*   Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
*   Stephan Herrmann - Contributions for
*     bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*     bug
383368 - [compiler][null] syntactic null analysis for field references
*     bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
*     bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*     Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*     Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Bug 430150 - [1.8][null] stricter checking against type variables
*     Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style
null annotations
*     Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
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*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 367203 - [compiler][null] detect assigning null to nonnull argument
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

```

- \* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
  - \* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* bug 388281 - [compiler][null] inheritance of null annotations as an option
  - \* bug 401030 - [1.8][null] Null analysis support for lambda methods.
  - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
  - \* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
  - \* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
  - \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
  - \* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
  - \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
  - \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \*\*\*\*\*/

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- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Jesper Steen Moller - Contributions for
- \* Bug 412150 [1.8] [compiler]

Enable reflected parameter names during annotation processing

\*\*\*\*\*/

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\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

\* bug 385626 - @NonNull fails across

loop boundaries

\* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

\* Bug 455723 - Nonnull argument not correctly inferred in loop

\* Jesper S Moller - Contributions for

\* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FinallyFlowContext.java

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\* IBM Corporation - initial API and implementation  
\* Stephan Herrmann - Contribution for  
\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code  
generator  
\*\*\*\*\*/

Found in path(s):  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/IntersectionCastTypeReference.java  
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\* Contributors:  
\* wharley@bea.com - initial API and implementation  
\* IBM Corporation - fix for 342470  
\* IBM Corporation - fix for 342598  
\* IBM Corporation - Java 8 support  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/apt/model/TypeParameterElementImpl.java  
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\* Stephan Herrmann - Contributions for

\* bug 332637 - Dead Code detection removing code that isn't dead

\* bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6

\* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/ConditionalFlowInfo.java

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- \* Contributors:
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- \* Stephan Herrmann - contributions for
  - \* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
  - \* bug 186342 - [compiler][null] Using annotations for null checking
  - \* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
  - \* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* bug
    - 392862 - [1.8][compiler][null] Evaluate null annotations on array types
    - \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
    - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
    - \* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
    - \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
    - \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
    - \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
    - \* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
    - \* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
    - \* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
    - \* Bug 416190 - [1.8][null]
      - detect incompatible overrides due to null type annotations
      - \* Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
      - \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
      - \* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
      - \* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
      - \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
      - \* Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
      - \* Bug 457079 - Regression: type inference
      - \* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
      - \* Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
      - \* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/LookupEnvironment.java

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\* Bug 458396 - NPE in CodeStream.invoke()

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\* Stephan Herrmann - Contributions for

\* bug 292478 - Report potentially null across variable assignment

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

- \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 331649 - [compiler][null] consider null annotations for fields
- \* bug 383368 - [compiler][null] syntactic null analysis for field

references

- \* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- \* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
- \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

checking

- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 426792 - [1.8][inference][impl] generify new type inference engine
- \* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
- \* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 426996 - [1.8][inference]  
try to avoid method Expression.unresolve()?
- \* Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for  
Bug 473178

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jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationBinding.java  
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*   IBM Corporation - fix for 342598
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*   wharley@bea.com - initial API and implementation
*   (originally in org.eclipse.jdt.apt.core)
*   IBM Corporation - Bug 513790
*****/
```

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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
```

- \* bug 185682 - Increment/decrement operators mark local variables as read
- \* bug 349326 - [1.7] new warning for missing try-with-resources
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- \* bug 331649 - [compiler][null] consider null annotations for fields
- \* Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
- \* Jesper S Møller <jesper@selskabet.org> - Contributions for
- \* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- \*

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/LocalVariableBinding.java

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- \* Stephan Herrmann - Contributions for
  - \*     bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
  - \*     bug 349326 - [1.7] new warning for missing try-with-resources
  - \*     bug 186342 - [compiler][null] Using annotations for null checking
  - \*     bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
  - \*     bug 370639 - [compiler][resource] restore the default for resource leak warnings
  - \*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
  - \*     bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
  - \*     bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
  - \*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
  - \*     Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
  - \*     Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
  - \*     Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
  - \*     Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
  - \*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
  - \*     Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
  - \*     Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
  - \*     Jesper S Moller <jesper@selskabet.org> - Contributions for
  - \*     bug 378674 - "The method can be declared as static" is wrong
  - \*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  - \*     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
  - \*     Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
  - \*     Till Brychcy - Contributions for
  - \*     bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
- \*\*\*\*\*/

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  - \* Benjamin Muskalla - Contribution for bug 239066
  - \* Stephan Herrmann - Contributions for
    - bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
    - bug 295551 - Add option to automatically promote all warnings to errors
    - bug 349326 - [1.7] new warning for missing try-with-resources
  - \* bug 186342 - [compiler][null] Using annotations for null checking
  - \* bug
    - 370639 - [compiler][resource] restore the default for resource leak warnings
  - \* bug 366063 - Compiler should not add synthetic @NonNull annotations
  - \* bug 374605 - Unreasonable warning for enum-based switch statements
  - \* bug 388281 - [compiler][null] inheritance of null annotations as an option
  - \* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
  - \* bug 383368 - [compiler][null] syntactic null analysis for field references
  - \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
  - \* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
  - \* Jesper Steen Moller - Contributions for
    - bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
    - bug 407297 - [1.8][compiler] Control generation of parameter names by option
- \*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CompilerOptions.java

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\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 364890 - BinaryTypeBinding should use char constants from Util

\* bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.

\* bug 358903 - Filter practically unimportant resource leak warnings

\* bug

365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

- \* bug 388800 - [1.8][compiler] detect default methods in class files
- \* bug 388281 - [compiler][null] inheritance of null annotations as an option
- \* bug 331649 - [compiler][null] consider null annotations for fields
- \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 415850 - [1.8] Ensure RunJDTCORETests can cope with null annotations enabled
- \* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
- \* Bug 392245 - [1.8][compiler][null] Define whether

/ how @NonNullByDefault applies to TYPE\_USE locations

- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- \* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
- \* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
- \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
- \* Bug 454182 - Internal compiler error when using

1.8 compliance for simple project

- \* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
- \* Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning

Jesper Steen Moller - Contributions for

- \* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
- \* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable

Sebastian Zarnekow - Contributions for

- \* bug 544921 - [performance] Poor performance with large source files

Alexander Lehmann - Contributions for

- \* bug 566258 - Intermittent NPE in APT RoundDispatcher

\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryTypeBinding.java

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\* Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm

\* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions

\* Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CharOperation.java

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\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\*\*\*\*\*

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ExceptionLabel.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/PolyParameterizedGenericMethodBinding.java

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\* Stephan Herrmann - initial API and implementation

\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

\* Bug 473178

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintTypeFormula.java

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- \* wharley@bea.com - initial API and implementation
- \* IBM Corporation - fix for 342598
- \* IBM Corporation - Java 8 support
- \* het@google.com - Bug 427943 - The method

org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException

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- \* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
  - \* bug 292478 - Report potentially null across variable assignment
  - \* bug 332637 - Dead Code detection removing code that isn't dead
  - \* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
  - \* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
  - \* Bug 421035 - [resource]
    - \* False alarm of resource leak warning when casting a closeable in its assignment

False alarm of resource leak warning when casting a closeable in its assignment

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\* Contributors:

\* Igor Fedorenko - extracted from ElementsImpl

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\* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

\* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction

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Found in path(s):

\*/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AND\_AND\_Expression.java

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- \* bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
  - \* bug 292478 - Report potentially null across variable assignment
  - \* bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
  - \* bug 354554 - [null] conditional with redundant condition
- yields weak error message
- \* bug 349326 - [1.7] new warning for missing try-with-resources
  - \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
  - \* bug 383368 - [compiler][null] syntactic null analysis for field references
  - \* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
  - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
  - \* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
  - \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
  - \* Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
  - \* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
  - \* Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
  - \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
  - \* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
- \*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ConditionalExpression.java

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\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

\* Jesper S Moller - Contributions for

\* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/CompoundAssignment.java  
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\* Jesper S Moller - Contributions for  
\* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression  
\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335  
\* Stephan Herrmann - Contribution for  
\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
\* Bug 423504 - [1.8] Implement "18.5.3  
Functional Interface Parameterization Inference"  
\* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType  
\* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression  
\* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error  
\* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.  
\* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)  
\* Bug 428352 - [1.8][compiler] Resolution errors don't always surface  
\* Bug 446442 - [1.8] merge null annotations from super methods  
\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/FunctionalExpression.java  
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*       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*       Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*****/
```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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*       bug 328281 - visibility leaks not detected when analyzing unused field in private class
*       bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
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- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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- \* Till Brychcy - Contributions for

\*

- \* Bug 467482 - TYPE\_USE null annotations: Incorrect "Redundant null check"-warning

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\* Bug 407191 - [1.8] Binary access support for type annotations

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\* Stephan Herrmann - Contribution for

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* Jesper S Moller - Contributions for

\* Bug 378674 - "The method can be declared as static" is wrong

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jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java

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- \* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
- \* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* bug 378674 - "The method can be declared as static" is wrong

\*\*\*\*\*/

Found

in path(s):

- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-



jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java

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\* Jesper S Moller - Contributions for

\* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

\* Stephan Herrmann - Contribution for

\* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 416182 - [1.8][compiler][null]

Contradictory null annotations not rejected

/\*\*

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/lookup/ProblemReasons.java

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jar/org/eclipse/jdt/internal/compiler/apt/model/ErrorTypeImpl.java

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\* Contributors:

\* IBM Corporation - initial API and implementation

\* Stephan Herrmann - Contributions for

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

\* bug 331649 - [compiler][null] consider null annotations for fields

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 415043 - [1.8][null] Follow-up re null type annotations

after bug 392099

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

\* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location

\* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE\_USE locations

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

\* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?

\* Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)

\* Andy Clement (GoPivotal,

Inc) aclement@gopivotal.com - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references

\* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped

\* Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type

\* Jesper S Moller <jesper@selskabet.org> - Contributions for

\* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable

\* Bug 412151 - [1.8][compiler] Check repeating annotation's collection type

\* Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container

\* Bug 419209 - [1.8] Repeating container annotations

should be rejected in the presence of annotation it contains

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\* Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks

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jar/org/eclipse/jdt/internal/compiler/ast/SynchronizedStatement.java

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\* Matt McCutchen - partial fix for [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=122995](https://bugs.eclipse.org/bugs/show_bug.cgi?id=122995)

\* Karen Moore - fix for [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=207411](https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411)

\* Stephan Herrmann <[stephan@cs.tu-berlin.de](mailto:stephan@cs.tu-berlin.de)> - Contributions for

\* bug 185682 - Increment/decrement operators mark local variables as read

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after

bug 186342 and bug 365387

\* bug 374605 - Unreasonable warning for enum-based switch statements

\* bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation

\* bug 393719 - [compiler] inconsistent warnings on iteration variables

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith

\* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding

\* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

- \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 426366
- [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- \* Bug 427282 - [1.8][compiler] AIOOB (-1) at  
org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
- \* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varargs
- \* Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
- \* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
- \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- \* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- \* Bug 446442 - [1.8] merge null annotations from super methods
- \* Bug 437072 - [compiler][null] Null analysis emits  
possibly incorrect warning for new int[][] despite @NonNullByDefault
- \* Jesper S Moller - Contributions for
- \* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
- \* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
- \* bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
- \* Till Brychcy - Contributions for
- \* bug 467094 - [1.8][null] TYPE\_USE NullAnnotations of array contents are applied to field.

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ASTNode.java

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\* Stephan Herrmann - Contributions for

\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365835 - [compiler][null] inconsistent error reporting.

- \* bug 365519 - editorial cleanup after bug 186342 and bug 365387
- \* bug 358903 - Filter practically unimportant resource leak warnings
- \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 370639 - [compiler][resource] restore the default for resource leak warnings
- \* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- \* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- \* bug 383368 - [compiler][null] syntactic null analysis for field references
- \* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- \* bug 401030 - [1.8][null] Null analysis support for lambda

methods.

- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- \* Bug 417758 - [1.8][null] Null safety compromise during array creation.
- \* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- \* Bug 430150 - [1.8][null] stricter checking against type variables
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- \* Bug 455723 - Nonnull argument not correctly inferred in loop
- \* Jesper S Moller - Contributions

for

- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ReturnStatement.java

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\* Gauthier JACQUES - initial API and implementation

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerRequestor.java  
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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* Bug 417295 - [1.8][null] Massage type annotated

null analysis to gel well with deep encoded type bindings.

\* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java

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\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug

422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction

\*\*\*\*\*/





work)

\* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation  
\*\*\*\*\*/

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\* tyeung@bea.com - initial API and implementation  
\* olivier\_thomann@ca.ibm.com - add hashCode() and equals(..) methods

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jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java

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jar/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java

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*   Stephan Herrmann - Contributions for
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 358903 - Filter practically unimportant resource leak warnings
*     bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*     bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*     bug 382069 - [null] Make
the null analysis consider JUnit's assertNotNull similarly to assertions
*   Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*   Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*   Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*   Jesper S Moller - Contributions for
*     Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

```

- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 405104 - [1.8][compiler][codegen]
- Implement support for serializable lambdas
- \* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- \* bug 386692 - Missing "unused" warning on "autowired" fields
- \* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
- \* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeConstants.java

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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileManager.java

- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java

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\* Jesper S Moller - Contributions for

\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

\* Bug 406973 - [compiler] Parse MethodParameters attribute

\* Andy Clement - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/AttributeNamesConstants.java

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- \* Stephan Herrmann - Contribution for
- \* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 331649 - [compiler][null] consider null annotations for fields
- \* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- \* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
- \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- \* Bug 458396 - NPE in CodeStream.invoke()
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FieldDeclaration.java

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\* Contributors:

\* IBM Corporation - initial API and implementation

\* Stephan Herrmann - contributions for

\* bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do { } while() loop

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 365859 - [compiler][null]

distinguish warnings based on flow analysis vs. null annotations

\* bug 385626 - @NonNull fails across loop boundaries

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 376263 - Bogus "Potential null pointer access" warning

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* bug 406384 - Internal error with I20130413

\* Bug 415413 - [compiler][null] NullPointerException in Null Analysis caused by interaction of LoopingFlowContext and FinallyFlowContext

\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

\* Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference

\* Bug 455723 - Nonnull argument not correctly inferred in loop

- \* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
  - \* Bug 421035 - [resource]
- False alarm of resource leak warning when casting a closeable in its assignment
- \* Jesper S Moller - contributions for
  - \* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
- \*\*\*\*\*/

Found in path(s):

- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/LoopingFlowContext.java
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- \* Stephan Herrmann - Contribution for
- \* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
- \* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
- \* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- \* Till Brychcy - Contribution for
- \* Bug 473713

- [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1

\*\*\*\*\*/

/\* Cache the derived type, tagging it as a derivative of both the key type and the naked type.

E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not needed for correctness, but for annotated object reuse. We provide two alternate ways to annotate a type:

Taking parameterized types as an example, a call to getParameterizedType can be made with annotations to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as the key, in the latter with List<String> as the key.

Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these alternate code paths. Unless care is exercised, we will end up with duplicate objects (that share the same TypeBinding.id => correctness is not an issue, but memory wastage is)

\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.java

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\* Stephan Herrmann - Contribution for

\* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* Bug 415850 - [1.8] Ensure RunJDTCORETests

can cope with null annotations enabled

\* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varargs

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class

\* Bug 434600 - Incorrect null analysis error reporting on type parameters

\* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type

\* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

\* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

\* Bug 437072 - [compiler][null] Null analysis

emits possibly incorrect warning for new int[][] despite @NonNullByDefault

\* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator

\* Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator

\* Jesper S Møller <jesper@selskabet.org> - Contributions for

\* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

\* bug 529556 - [18.3] Add content assist support for 'var' as a type

\*



\*\*\*\*\*/

Found

in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TypeReference.java

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\* Jesper S Moller - Contributions for  
\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335  
\* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile  
\* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)  
\* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable  
\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com  
- Contributions for  
\* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas  
\* Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:  
"Invalid lambda deserialization"  
\*\*\*\*\*/

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jar/org/eclipse/jdt/internal/compiler/codegen/ConstantPool.java  
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- \* IBM Corporation - initial API and implementation
- \* Stephan Herrmann - Contributions for
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 387612 - Unreachable catch block...exception is never thrown from the try
- \* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 401456 - Code compiles from javac/intellij, but fails from eclipse
- \* bug 401271 - StackOverflowError
- when searching for a methods references
- \* bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
- \* Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the interface type as the last parameter
- \* Bug 413958 - Function override returning inherited Generic Type
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
- \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- \* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- \* Bug 424415 - [1.8][compiler]
- Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- \* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
- \* Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
- \* Bug 426590 - [1.8][compiler] Compiler error with ternary operator
- \* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
- \* Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)
- \* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
- \* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
- \* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- \* Bug
- 427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
- \* Bug 427218 - [1.8][compiler] Verify error varargs + inference
- \* Bug 426836 - [1.8] special handling for return type in references to method getClass()?
- \* Bug 427628 - [1.8] regression : The method \* is ambiguous for the type \*
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type

Bindings

- \* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
  - \* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
  - \* Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
  - \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
  - \* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
  - \* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
  - \* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
  - \* Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
  - \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
  - \* Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
  - \* Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
  - \* Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
  - \* Jesper S Moller - Contributions for
  - \* Bug 378674 - "The method can be declared as static" is wrong
  - \* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
  - \* Andy Clement (GoPivotal, Inc)
  - aclement@gopivotal.com - Contributions for
  - \* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
  - \* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
  - \* Bug 559618 - No compiler warning for import from same package
  - \* Bug 560630 - No warning on unused import on class from same package
- \*\*\*\*\*/

Found in path(s):

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jar/org/eclipse/jdt/internal/compiler/parser/RecoveredLocalVariable.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java  
*  
/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/core/JDTCompilerAdapter.java  
*  
/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java  
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java  
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*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contributions for
*     bug 325755 - [compiler] wrong initialization state after conditional expression
*     bug 320170 - [compiler] [null] Whitebox issues in null analysis
*     bug 292478 - Report potentially null across variable assignment
*     bug 332637 - Dead Code detection removing code that isn't dead
*     bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
*     bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*     Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*     Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
*     Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*     Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     Bug 417295 - [1.8][null]

```

Message type annotated null analysis to gel well with deep encoded type bindings.

- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Andy Clement - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java  
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jar/org/eclipse/jdt/internal/compiler/env/ISourceField.java  
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jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java  
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* IBM Corporation - initial API and implementation  
* Stephan Herrmann - Contributions for  
* bug 349326 - [1.7] new warning for missing try-with-resources  
* bug 374605 - Unreasonable warning for enum-based switch statements  
* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.  
* bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier  
* bug 401030 - [1.8][null] Null analysis support for lambda methods.  
* Bug  
416176 - [1.8][compiler][null] null type annotations cause grief on type variables  
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
* Jesper S Moller - Contributions for  
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression  
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\* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IPolyExpression.java

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\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
\* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types  
\* bug 383368 - [compiler][null] syntactic null analysis for field references  
\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking  
\*\*\*\*\*/

Found

in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayReference.java

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  - \* bug 328281 - visibility leaks not detected when analyzing unused field in private class
  - \* bug 349326 - [1.7] new warning for missing try-with-resources
  - \* bug 186342 - [compiler][null] Using annotations for null checking
  - \* bug 365836 - [compiler][null] Incomplete propagation of null defaults.
  - \* bug 365519 - editorial cleanup after bug 186342
- and bug 365387
  - \* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
  - \* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
  - \* bug 366063 - Compiler should not add synthetic @NonNull annotations
  - \* bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
  - \* bug 386356 - Type mismatch error with annotations and generics
  - \* bug 388281 - [compiler][null] inheritance of null annotations as an option
  - \* bug 331649 - [compiler][null] consider null annotations for fields
  - \* bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
  - \* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
  - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
    - \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
  - \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
  - \* Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
  - \* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
  - \* Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
  - \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
  - \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
  - \* Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
  - \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
  - \* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
  - \* Bug 441693 - [1.8][null]
- Bogus warning for type argument annotated with @NonNull
  - \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
  - \* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
  - \* Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
  - \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
  - \* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* Till Brychcy - Contributions for
  - \* bug 415269 - NonNullByDefault is not always inherited to nested classes
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  - \* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
- \* Sebastian Zarnekow - Contributions

for

\* bug 544921 - [performance] Poor performance with large source files  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/Messages.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java  
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\* Jesper S Moller - Contributions for  
\* Bug 378674 - "The method can be declared as static" is wrong  
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\* Tom Tromey - patch for readTable(String) as described in [http://bugs.eclipse.org/bugs/show\\_bug.cgi?id=32196](http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196)  
\* Stephan Herrmann - Contributions for  
\* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)  
\* bug 374605 - Unreasonable warning for enum-based switch statements  
\* bug 393719 - [compiler] inconsistent warnings on iteration variables  
\* bug 382353 - [1.8][compiler] Implementation property modifiers  
should be accepted on default methods.  
\* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods  
\* bug 401035 - [1.8] A few tests have started failing recently  
\* Jesper S Moller - Contributions for  
\* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression  
\* bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods  
\* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration  
\* bug 393192 - Incomplete type hierarchy with > 10 annotations  
\* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type  
\* Andy Clement - Contributions for  
\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
work)  
\* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation  
\*

Bug 415821 - [1.8][compiler] CLASS\_EXTENDS target type annotation missing for anonymous classes

\*\*\*\*\*/

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\* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation  
\* Bug 440687 - [compiler][batch][null] improve command line option for external annotations  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJar.java  
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- \* Dennis Hendriks - initial API and implementation
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  - \* Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
  - \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
  - \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class

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jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java
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jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
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jar/org/eclipse/jdt/internal/compiler/impl/DoubleConstant.java
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jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
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jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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\* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for  
\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
work)  
\* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array  
\* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references  
\*  
Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation  
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\* [het@google.com](mailto:het@google.com) - Bug 441790

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java

\*

/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java

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jar/org/eclipse/jdt/internal/compiler/parser/RecoveryScanner.java  
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*   Jesper S Moller - Bug 392671  
*   NPE with a method with explicit this and a following incomplete parameter  
*****/
```

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jar/org/eclipse/jdt/internal/compiler/parser/RecoveredMethod.java  
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jar/org/eclipse/jdt/internal/compiler/ast/Literal.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/parser/diagnose/LexStream.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/NormalAnnotation.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ImportReference.java  
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\* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)  
\* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods

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Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredType.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithAnnotations.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java

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\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
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Found in path(s):

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\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 407191 - [1.8] Binary access support for type annotations  
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jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfo.java

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\* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code  
\* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics  
\* bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtype  
\* Jesper S Moller - Contributions for  
\* Bug 405066 - [1.8][compiler][codegen] Implement  
code generation infrastructure for JSR335  
\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
work)  
\* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array  
\* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code  
generator  
\* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation  
\* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas  
\* Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class  
\* Olivier Tardieu (tardieu@us.ibm.com) - Contributions for  
\* Bug 442418 - \$deserializeLambda\$ off-by-one error when deserializing the captured arguments  
of a lambda that also capture this

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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*   Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*   Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*   Frits Jalvingh - fix for bug 533830.
*****/
```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java  
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\* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax  
\* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super  
\* bug 404728 - [1.8]NPE on QualifiedSuperReference error  
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\* Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8  
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\*   bug 331649 - [compiler][null] consider null annotations for fields  
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\*   Stephan Herrmann - Contribution for

- \* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
- \* bug 388954 - [1.8][compiler] detect default methods in class files
- \* bug 388281 - [compiler][null] inheritance of null annotations as an option
- \* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared abstract
- \* bug 390883 - [1.8][compiler] Unable to override default method
- \* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
- \* bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
- \* bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
- \* bug 409473 - [compiler] JDT cannot compile against JRE 1.8
- \* Bug 420080 - [1.8] Overridden Default method is reported as duplicated

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MarkerAnnotation.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UnlikelyArgumentCheck.java

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\* Stefan Xenos <[sxenos@gmail.com](mailto:sxenos@gmail.com)> (Google) - initial API and implementation

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ExternalAnnotationDecorator.java

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\* Stephan Herrmann - Contributions for

\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

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Found in path(s):

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\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
\* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"  
\* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param  
\*\*\*\*\*/

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\* Tom Tromey - Contribution for bug 125961  
\* Tom Tromey - Contribution for bug 159641  
\* Benjamin Muskalla - Contribution for bug 239066  
\* Stephan Herrmann - Contributions for  
\* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used  
\* bug 295551 - Add option to automatically promote all warnings to errors  
\* bug 359721 - [options] add command line option  
for new warning token "resource"  
\* bug 365208 - [compiler][batch] command line options for annotation based null analysis

- \* bug 374605 - Unreasonable warning for enum-based switch statements
- \* bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
- \* bug 388281 - [compiler][null] inheritance of null annotations as an option
- \* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
- \* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
- \* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
- \* Bug 408815 - [batch][null] Add CLI option for

COMPILER\_PB\_SYNTACTIC\_NULL\_ANALYSIS\_FOR\_FIELDS

- \* Jesper S Moller - Contributions for
  - \* bug 407297 - [1.8][compiler] Control generation of parameter names by option
  - \* Mat Booth - Contribution for bug 405176
  - \* Frits Jalvingh -
- fix for bug 533830.

\*\*\*\*\*/

Found in path(s):

- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/Main.java

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- \* Stephan Herrmann - Contributions for
- \* bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
- \* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 416181 - [1.8][compiler][null] Invalid assignment

is not rejected by the compiler

- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 434600 - Incorrect null analysis error reporting on type parameters
- \* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Andy Clement - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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Found in path(s):

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\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 407191 - [1.8] Binary access support for type annotations

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\* Jesper Steen Moeller - Contributions for:  
\* Bug 407297: [1.8][compiler] Control generation of parameter names by option

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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*   Stephan Herrmann - Contribution for
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 429958
*   - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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*   bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with
generics (RuntimeException instead of IOException)
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java  
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*   Stephan Herrmann - Contribution for  
*     bug 383368 - [compiler][null] syntactic null analysis for field references  
*     bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields  
*/
```

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\* Nick Teryaev - fix for bug ([https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=40752](https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752))

\* Stephan Herrmann - Contributions for

\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 358903 - Filter practically unimportant resource leak warnings

\* bug

370639 - [compiler][resource] restore the default for resource leak warnings

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

\* bug 379784 - [compiler] "Method can be static" is not getting reported

\* bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.

\* bug 388281 - [compiler][null] inheritance of null annotations as an option

\* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

\* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

\* bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 383368 - [compiler][null] syntactic null

analysis for field references

\* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions

\* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax

\* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super

\* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly

\* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement

- \* Bug 417295 - [1.8][null] Message type annotated null analysis  
to gel well with deep encoded type bindings.
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- \* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- \* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload  
context
- \* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
- \* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- \* Bug 427438 - [1.8][compiler]

NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- \* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException  
instead of IOException)
- \* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- \* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
- \* Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
- \* Bug 470958 - [1.8] Unable to convert lambda
- \* Bug 410218 - Optional warning  
for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- \* Jesper S Moller - Contributions for
- \* Bug 378674 - "The method can be declared as static" is wrong
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
work)
- \* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic  
bridge method

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredAnnotation.java  
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*     bug 292478 - Report potentially null across variable assignment,
*     bug 185682 - Increment/decrement operators mark local variables as read
*     bug 331649 - [compiler][null] consider null annotations for fields
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
info cannot be null
*     Bug 458396 - NPE in CodeStream.invoke()
*     Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*   Jesper S Moller - <jesper@selskabet.org> - Contributions for
*     bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*     bug 378674 - "The method can be declared as static" is wrong
*     bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*     bug 527554 - [1.8.3] Compiler support for JEP 286 Local-Variable Type
*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/SingleNameReference.java

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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*     bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*     bug 358903 - Filter practically unimportant resource leak warnings
*     bug 395002 - Self bound generic class
doesn't resolve bounds properly for wildcards for certain parametrisation.
*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*     Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

```

- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 426792 - [1.8][inference][impl] generify new type inference engine
- \* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
- \* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
- \* Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
- \* Bug 431408 - Java 8 (1.8) generics bug
- \* Bug 435962 - [RC2] StackOverFlowError when building
- \* Bug
- 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
- \* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
- \* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
- \* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- \* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
- \* Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
- \* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- \* Bug 462790 - [null] NPE in Expression.computeConversion()
- \* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
- \* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
- \* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeVariableBinding.java  
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 \* Contributors:  
 \* Stephan Herrmann - initial API and implementation

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Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/TryFlowContext.java

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*   Stephan Herrmann - Contributions for
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed
via BinaryTypeBinding
*****/

```

Found

in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedReferenceBinding.java

```

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* Contributors:
*   wharley@bea.com - initial API and implementation
*
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Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/model/VariableElementImpl.java

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\* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for  
\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
work)  
\* Stephan Herrmann - Contribution for  
\* Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files  
\*\*\*\*\*/

Found in

path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/codegen/AnnotationTargetTypeConstants.java

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\* Contributors:  
\* IBM Corporation - initial API and implementation  
\* Stephan Herrmann - Contribution for  
\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
\* Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/ProblemMethodBinding.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/env/ITypeAnnotationWalker.java

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\* Benjamin Muskalla - Contribution for bug 239066

\* Stephan Herrmann - Contributions for

\* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used

\* bug 338303 - Warning about Redundant assignment conflicts with definite assignment

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

\* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

\* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

\* bug 374605 - Unreasonable warning for enum-based switch statements

\* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.

\* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance

\* bug 388281 - [compiler][null] inheritance of null annotations as an option

\* bug 376053 - [compiler][resource] Strange potential resource leak problems

\* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated

\* bug 393719 - [compiler] inconsistent warnings on iteration

## variables

- \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared

## abstract

- \* bug 331649 - [compiler][null] consider null annotations for fields
- \* bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
- \* bug 376590 - Private fields with @Inject are ignored by unused field validation
- \* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- \* bug 402028 - [1.8][compiler] null analysis for reference expressions
- \* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
- \* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug

392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
- \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first

## field

- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to

## Files::walk

- \* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert  
from List<Object> to Collection<Object[]>
- \* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type

## Bindings

- \* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
- \* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE\_USE locations
- \* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- \* Bug 430150 - [1.8][null] stricter checking against type variables
- \* Bug 434600 - Incorrect null analysis error reporting on type parameters
- \* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- \* Bug 438467 - [compiler][null] Better error position for "The method \_ cannot implement the corresponding  
method \_ due to incompatible nullness constraints"
- \* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault  
in package-info.java
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 446442 - [1.8] merge null annotations from super methods
- \* Bug 455723 - Nonnull argument not correctly inferred in loop
- \* Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
- \* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- \* Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
- \* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),  
Collection#remove(Object) et al.

- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression



- \* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
- \* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
- \* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* bug 412151 - [1.8][compiler] Check repeating annotation's collection type
- \* bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
- \* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
- \* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
- \* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- \* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- \* bug 386692 - Missing "unused" warning on "autowired" fields

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- \* Stephan Herrmann - Contribution for
- \* bug 384380 - False positive on a "Potential null pointer access" after a continue
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InvocationSite.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryModuleBinding.java  
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\* Stephan Herrmann - Contributions for  
\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE  
\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking  
\* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch  
\*\*\*\*\*

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/DoStatement.java  
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  - \* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* bug 388281 - [compiler][null] inheritance of null annotations as an option
  - \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

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in path(s):

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- \* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
- \* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for
  - \* Bug 407191 - [1.8] Binary access support for type annotations

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryMethod.java

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\* IBM Corporation - added the following constants

\* NonStaticAccessToStaticField

\* NonStaticAccessToStaticMethod

\* Task

\* ExpressionShouldBeAVariable

\* AssignmentHasNoEffect

\* IBM Corporation - added the following constants

\* TooManySyntheticArgumentSlots

\* TooManyArrayDimensions

\* TooManyBytesForStringConstant

\* TooManyMethods

\* TooManyFields

\* NonBlankFinalLocalAssignment

\* ObjectCannotHaveSuperTypes

\* MissingSemiColon

\* InvalidParenthesizedExpression

\* EnclosingInstanceInConstructorCall

\* BytecodeExceeds64KLimitForConstructor

\* IncompatibleReturnTypeForNonInheritedInterfaceMethod

\* UnusedPrivateMethod

\* UnusedPrivateConstructor

\* UnusedPrivateType

\* UnusedPrivateField

\* IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod

\* InvalidExplicitConstructorCall

\* IBM Corporation - added the following constants

\* PossibleAccidentalBooleanAssignment

\* SuperfluousSemicolon

\* IndirectAccessToStaticField

- \* IndirectAccessToStaticMethod
- \* IndirectAccessToStaticType
- \* BooleanMethodThrowingException
- \* UnnecessaryCast
- \* UnnecessaryArgumentCast
- \* UnnecessaryInstanceOf
- \*
- FinallyMustCompleteNormally
- \* UnusedMethodDeclaredThrownException
- \* UnusedConstructorDeclaredThrownException
- \* InvalidCatchBlockSequence
- \* UnqualifiedFieldAccess
- \* IBM Corporation - added the following constants
- \* Javadoc
- \* JavadocUnexpectedTag
- \* JavadocMissingParamTag
- \* JavadocMissingParamName
- \* JavadocDuplicateParamName
- \* JavadocInvalidParamName
- \* JavadocMissingReturnTag
- \* JavadocDuplicateReturnTag
- \* JavadocMissingThrowsTag
- \* JavadocMissingThrowsClassName
- \* JavadocInvalidThrowsClass
- \* JavadocDuplicateThrowsClassName
- \* JavadocInvalidThrowsClassName
- \* JavadocMissingSeeReference
- \* JavadocInvalidSeeReference
- \* JavadocInvalidSeeHref
- \* JavadocInvalidSeeArgs
- \* JavadocMissing
- \* JavadocInvalidTag
- \* JavadocMessagePrefix
- \* EmptyControlFlowStatement
- \* IBM Corporation - added the following constants
- \* IllegalUsageOfQualifiedTypeReference
- \* InvalidDigit
- \* IBM Corporation - added the following constants
- \* ParameterAssignment
- \* FallthroughCase
- \* IBM Corporation - added the following constants
- \* UnusedLabel
- \* UnnecessaryNLSTag
- \* LocalVariableMaybeNull
- \* EnumConstantsCannotBeSurroundedByParenthesis
- \* JavadocMissingIdentifier
- \* JavadocNonStaticTypeFromStaticInvocation
- \* RawTypeReference

- \* NoAdditionalBoundAfterTypeVariable
- \* UnsafeGenericArrayForVarargs
- \* IllegalAccessFromTypeVariable
- \*
  - AnnotationValueMustBeArrayInitializer
  - \* InvalidEncoding
  - \* CannotReadSource
  - \* EnumStaticFieldInInInitializerContext
  - \* ExternalProblemNotFixable
  - \* ExternalProblemFixable
  - \* IBM Corporation - added the following constants
    - \* AnnotationValueMustBeAnEnumConstant
    - \* OverridingMethodWithoutSuperInvocation
    - \* MethodMustOverrideOrImplement
    - \* TypeHidingTypeParameterFromType
    - \* TypeHidingTypeParameterFromMethod
    - \* TypeHidingType
  - \* IBM Corporation - added the following constants
    - \* NullLocalVariableReference
    - \* PotentialNullLocalVariableReference
    - \* RedundantNullCheckOnNullLocalVariable
    - \* NullLocalVariableComparisonYieldsFalse
    - \* RedundantLocalVariableNullAssignment
    - \* NullLocalVariableInstanceofYieldsFalse
    - \* RedundantNullCheckOnNonNullLocalVariable
    - \* NonNullLocalVariableComparisonYieldsFalse
  - \* IBM Corporation - added the following constants
    - \* InvalidUsageOfTypeParametersForAnnotationDeclaration
    - \* InvalidUsageOfTypeParametersForEnumDeclaration
  - \* IBM Corporation - added the following constants
    - \* RedundantSuperinterface
  - \* Benjamin Muskalla - added the following constants
    - \* MissingSynchronizedModifierInInheritedMethod
  - \* Stephan Herrmann - added the following constants
    - \* UnusedObjectAllocation
    - \* PotentiallyUnclosedCloseable
    - \* PotentiallyUnclosedCloseableAtExit
    - \* UnclosedCloseable
    - \* UnclosedCloseableAtExit
    - \* ExplicitlyClosedAutoCloseable
      - \* RequiredNonNullButProvidedNull
      - \* RequiredNonNullButProvidedPotentialNull
      - \* RequiredNonNullButProvidedUnknown
    - \* NullAnnotationNameMustBeQualified
    - \* IllegalReturnNullityRedefinition
    - \* IllegalRedefinitionToNonNullParameter
    - \* IllegalDefinitionToNonNullParameter
    - \* ParameterLackingNonNullAnnotation

- \* ParameterLackingNullableAnnotation
- \* PotentialNullMessageSendReference
- \* RedundantNullCheckOnNonNullMessageSend
- \* CannotImplementIncompatibleNullness
- \* RedundantNullAnnotation
- \* RedundantNullDefaultAnnotation
- \* RedundantNullDefaultAnnotationPackage
- \* RedundantNullDefaultAnnotationType
- \* RedundantNullDefaultAnnotationMethod
- \* ContradictoryNullAnnotations
- \* IllegalAnnotationForBaseType
- \* RedundantNullCheckOnSpecdNonNullLocalVariable
- \* SpecdNonNullLocalVariableComparisonYieldsFalse
- \* RequiredNonNullButProvidedSpecdNullable
- \* MissingDefaultCase
- \* MissingEnumConstantCaseDespiteDefault
- \* UninitializedLocalVariableHintMissingDefault
- \* UninitializedBlankFinalFieldHintMissingDefault
- \* ShouldReturnValueHintMissingDefault
- \* IllegalModifierForInterfaceDefaultMethod
- \* InheritedDefaultMethodConflictsWithOtherInherited
- \* ConflictingNullAnnotations
- \* ConflictingInheritedNullAnnotations
- \* UnsafeElementTypeConversion
- \* ArrayReferencePotentialNullReference
- \* DereferencingNullableExpression
- \* NullityMismatchingTypeAnnotation
- \* NullityMismatchingTypeAnnotationSuperHint
- \* NullityUncheckedTypeAnnotationDetail
- \* NullityUncheckedTypeAnnotationDetailSuperHint
- \* NullableFieldReference
- \* UninitializedNonNullField
- \* UninitializedNonNullFieldHintMissingDefault
- \* NonNullMessageSendComparisonYieldsFalse
- \* RedundantNullCheckOnNonNullSpecdField
- \* NonNullSpecdFieldComparisonYieldsFalse
- \* NonNullExpressionComparisonYieldsFalse
- \* RedundantNullCheckOnNonNullExpression
- \* ReferenceExpressionParameterNullityMismatch
- \* ReferenceExpressionParameterNullityUnchecked
- \* ReferenceExpressionReturnNullRedef
- \* ReferenceExpressionReturnNullRedefUnchecked
- \* DuplicateInheritedDefaultMethods
- \* SuperAccessCannotBypassDirectSuper
- \* SuperCallCannotBypassOverride
- \* ConflictingNullAnnotations
- \* ConflictingInheritedNullAnnotations
- \* UnsafeElementTypeConversion

```

* PotentialNullUnboxing
* NullUnboxing
* NullExpressionReference
* PotentialNullExpressionReference
* RedundantNullCheckAgainstNonNullType
* NullAnnotationUnsupportedLocation
* NullAnnotationUnsupportedLocationAtType
* NullityMismatchTypeArgument
* ContradictoryNullAnnotationsOnBound
* UnsafeNullnessCast
* ContradictoryNullAnnotationsInferred
* NonNullDefaultDetailIsNotEvaluated
* NullNotCompatibleToFreeTypeVariable
* NullityMismatchAgainstFreeTypeVariable
* ImplicitObjectBoundNonNullDefault
* IllegalParameterNullityRedefinition
* ContradictoryNullAnnotationsInferredFunctionType
* IllegalReturnNullityRedefinitionFreeTypeVariable
* UnlikelyCollectionMethodArgumentType
* UnlikelyEqualsArgumentType
* Jesper S Moller - added the following constants
* TargetTypeNotAFunctionalInterface
* OuterLocalMustBeEffectivelyFinal
* IllegalModifiersForPackage
* DuplicateAnnotationNotMarkedRepeatable
* DisallowedTargetForContainerAnnotation
* RepeatedAnnotationWithContainerAnnotation
* ContainingAnnotationMustHaveValue
* ContainingAnnotationHasNonDefaultMembers
* ContainingAnnotationHasWrongValueType
* ContainingAnnotationHasShorterRetention
* RepeatableAnnotationHasTargets
* RepeatableAnnotationTargetMismatch
* RepeatableAnnotationIsDocumented
* RepeatableAnnotationIsInherited
* RepeatableAnnotationWithRepeatingContainerAnnotation
* VarLocalMultipleDeclarators
* VarLocalCannotBeArray
* VarLocalReferencesItself
* VarLocalWithoutInitializer
* VarLocalInitializedToNull
* VarLocalCannotBeArrayInitializers
* VarLocalCannotBeLambda
* VarLocalCannotBeMethodReference
* VarIsReserved
* VarIsReservedInFuture
* VarIsNotAllowedHere
*****/

```



Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/IProblem.java

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\* Stephan Herrmann - Contribution for  
\* Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method

\* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

\* Bug 440687 - [compiler][batch][null] improve command line option for external annotations

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\*

bug 407191 - [1.8] Binary access support for type annotations

\*\*\*\*\*

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileReader.java

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\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

\* Bug 473178

\* IBM Corporation - Bug fixes

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BoundSet.java

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\* Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ExecutableElementImpl.java

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\* bug 331649 - [compiler][null] consider null annotations for fields

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?

\* Jesper S Moller - Contributions for

\* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NameReference.java

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\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files  
\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099  
\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute

\*\*\*\*\*/

Found

in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TypeParameter.java

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\* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types  
\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.  
\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files  
\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
\* Bug

415291 - [1.8][null] differentiate type incompatibilities due to null annotations

- \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
- \* Bug 426792 - [1.8][inference][impl] generify new type inference engine
- \* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- \* Bug 441693 -

[1.8][null] Bogus warning for type argument annotated with @NonNull

- \* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
- \* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

\*\*\*\*\*/

Found in path(s):

\*/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java

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\* Genady Beriozkin - added support for reporting assignment with no effect

\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

\* bug 292478 - Report potentially null across variable assignment

\* bug 335093 - [compiler][null] minimal hook for future null annotation support

\* bug 349326 - [1.7] new warning for missing

try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 358903 - Filter practically unimportant resource leak warnings

\* bug 370639 - [compiler][resource] restore the default for resource leak warnings

\* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

\* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

- \* bug 331649 - [compiler][null] consider null annotations for fields
  - \* bug 383368 - [compiler][null] syntactic null analysis for field references
  - \* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
  - \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
  - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
  - \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
  - \* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
- \*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Assignment.java

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- \* Stephan Herrmann - Contributions for
- \* bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
- \* Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)
- \* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 434600 - Incorrect null analysis error reporting on type parameters
- \* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Andy Clement - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\*\*\*\*\*/

Found in path(s):

- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedSingleTypeReference.java
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  - \* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
  - \* bug 349326 - [1.7] new warning for missing try-with-resources
  - \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
  - \* bug 383368 - [compiler][null] syntactic null analysis for field references
  - \* bug 403147 - [compiler][null] FUP of bug 400761:
- consolidate interaction between unboxing, NPE, and deferred checking

\*\*\*\*\*/

Found in path(s):

- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IfStatement.java
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*     Bug 428811 - [1.8][compiler] Type witness unnecessarily required
*****/

```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/PolyTypeBinding.java

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*     bug 383368 - [compiler][null] syntactic null analysis for field references
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Found in path(s):

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/NullLiteral.java

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*   bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*   Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*   Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 405104 -
*   [1.8][compiler][codegen] Implement support for serializable lambdas
*****/
```

Found in path(s):

```
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticMethodBinding.java
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\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
\* bug 383368 - [compiler][null] syntactic null analysis for field references  
\*\*\*\*\*/

Found in path(s):

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`/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PackageVisibilityStatement.java`  
`/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java`  
`/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java`

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*     Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations  
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
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`/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SingleTypeReference.java`

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*/
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*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
*/
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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 \* bug 186342 - [compiler][null] Using annotations for null checking  
 \* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.  
 \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099  
 \* bug 413958 - Function override returning inherited Generic Type  
 \* Bug 400874 - [1.8][compiler] Inference infrastructure  
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
 \* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding  
 \* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"  
 \* Bug 427438 - [1.8][compiler] NPE at  
 org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)  
 \* Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported  
 \* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected  
 \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
 \* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations  
 \* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference  
 \* Bug 446442 - [1.8] merge null annotations from super methods  
 \* Bug 457079 - Regression: type  
 inference  
 \*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedGenericMethodBinding.java

# 1.673 pcre 8.39-12ubuntu0.1

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-----

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## THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

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## PCRE JUST-IN-TIME COMPILATION SUPPORT

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\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/ClassFilePrinter.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/TypeChecker.java  
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/opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/web/BadHttpRequest.java  
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jar/javassist/bytecode/BadBytecode.java  
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\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/FieldDecl.java  
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\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/expr/ConstructorCall.java  
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\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtNewWrappedMethod.java  
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\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/convert/TransformNew.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/ArrayInit.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/CannotInvokeException.java



\*  
/opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/util/proxy/SecurityActions.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/util/proxy/ProxyObjectInputStream.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/InstructionPrinter.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/web/Webserver.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/StringL.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/TokenId.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Variable.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/util/proxy/RuntimeSupport.java  
\*  
/opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/AttributeInfo.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/SignatureAttribute.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Reflection.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/AnnotationsAttribute.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/SubroutineScanner.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtField.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/expr/NewExpr.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/CodeAnalyzer.java

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\*/

Found in path(s):

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/FloatMemberValue.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/MemberValueVisitor.java

\*

/opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/MemberValue.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/LongMemberValue.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/CharMemberValue.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ByteMemberValue.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ClassMemberValue.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/Annotation.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ArrayMemberValue.java

\*

/opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/DoubleMemberValue.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ShortMemberValue.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/IntegerMemberValue.java

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\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/EnumMemberValue.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/BooleanMemberValue.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/AnnotationMemberValue.java

# 1.677 Iz4 1.2.12

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-----

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Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

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---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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*
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\*  
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\*  
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\* -----  
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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-----

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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

-----

# 1.679 otel-exporters-otlp-otlptrace-otlptracegrpc 1.0.1



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```
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#
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```

-----  
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```
/*
  json_parse.js
  2015-05-02
  Public Domain.
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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*/
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
//////////////////////////////////////////////////////////////////
```

-----  
Codegen template  
in t\_html\_generator.h

```
* Bootstrap v2.0.3
*
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* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

-----  
For t\_cl\_generator.cc

\* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>

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---

# 1.680 zlib 1.2.11.dfsg-2ubuntu1.5

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```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
```

```
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
```

No license file was found, but licenses were detected in source scan.

```
/* gzclose.c -- zlib gzclose() function
```

```
* Copyright (C) 2004, 2010 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
```

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MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

-----  
MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.  
All possible work was done for compatibility.

Background

-----  
When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

-----

- \* Added ZIP64 support for unzip ( by Even Rouault )
- \* Added ZIP64 support for zip ( by Mathias Svensson )
- \* Reverted some changes that Even Rouault did.
- \* Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
- \* Added unzip patch for BZIP Compression method (patch created by Daniel Borca)
- \* Added BZIP Compress method for zip
- \* Did some refactoring and code cleanup

#### Credits

Gilles Vollant - Original MiniZip author  
Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZip Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZip Compression method support in zip

#### Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.  
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>  
Zip File specification

#### Notes.

- \* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 need to be defined.

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-----  
Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64\_info.txt

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/\* compress.c -- compress a memory buffer

\* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

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\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

No license file was found, but licenses were detected in source scan.

/\* zconf.h -- configuration of the zlib compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein

No license file was found, but licenses were detected in source scan.

/\*

\* gzlog.c

\* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved

\* For conditions of distribution and use, see copyright notice in gzlog.h

\* version 2.2, 14 Aug 2012

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c

No license file was found, but licenses were detected in source scan.

```
/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
```

No license file was found, but licenses were detected in source scan.

Not copyrighted -- provided to the public domain

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
```

No license file was found, but licenses were detected in source scan.

```
/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
```

No license file was found, but licenses were detected in source scan.

```
/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
```

No license file was found, but licenses were detected in source scan.

# For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
```

No license file was found, but licenses were detected in source scan.

```
/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
```

No license file was found, but licenses were detected in source scan.

```
/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
```

No license file was found, but licenses were detected in source scan.

```
/* unzip.c -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )
```

Copyright (C) 1998-2010 Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64  
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip  
Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying  
file LICENSE, version 2000-Apr-09 or later  
(the contents of which are also included in zip.h) for terms of use.  
If, for some reason, all these files are missing, the Info-ZIP license  
also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>



crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

-----  
Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G  
should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method  
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

No license file was found, but licenses were detected in source scan.

/\* example.c -- usage example of the zlib compression library

\* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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Jean-loup Gailly      Mark Adler  
jloup@zip.org        madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

No license file was found, but licenses were detected in source scan.

/\* gzwrite.c -- zlib functions for writing gzip files

\* Copyright (C) 2004-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c

No license file was found, but licenses were detected in source scan.

```
/* Adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
```

No license file was found, but licenses were detected in source scan.

## Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

### 1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

### 2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file `win32/DLL_FAQ.txt` in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

### 3. Where can I get a Visual Basic interface to zlib?

See

\* <http://marknelson.us/1997/01/01/zlib-engine/>

\* `win32/DLL_FAQ.txt` in the zlib distribution

### 4. `compress()` returns `Z_BUF_ERROR`.

Make sure that before the call of `compress()`, the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference

("as any"), not by value ("as long").

### 5. `deflate()` or `inflate()` returns `Z_BUF_ERROR`.

Before making the call, make sure that `avail_in` and `avail_out` are not zero.

When setting the parameter `flush` equal to `Z_FINISH`, also make sure that `avail_out` is big enough to allow processing all pending input. Note that a `Z_BUF_ERROR` is not fatal--another call to `deflate()` or `inflate()` can be made with more input or output space. A `Z_BUF_ERROR` may in fact be

unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when `strm.avail_out` returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in `zlib.h`. Examples of zlib usage are in the files `test/example.c` and `test/minigzip.c`, with more in `examples/`.

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at [zlib@gzip.org](mailto:zlib@gzip.org). Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files `libz.*` in `/usr/lib`, `/usr/local/lib` or `/usr/X11R6/lib`. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the `contrib/delphi` directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory `contrib/minizip` in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an `uncompress` or `gunzip` subprocess, or adapt the code of `uncompress` on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which

is different and incompatible with the gzip format. The gz\* functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz\* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's \*Init\* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB\_VERSION and ZLIB\_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB\_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering

is "1.2.3.4", then in zlib.h you should change ZLIB\_VERNUM to 0x123f, and ZLIB\_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and infrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB\_VERSION and ZLIB\_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z\_FULL\_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z\_FULL\_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work.

If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total\_in and strm\_total\_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().



If you don't have `sprintf()` or `vsprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/>.

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the `comp.compression` FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong

encryption,  
use GnuPG, <http://www.gnupg.org/>, which already includes zlib  
compression. For PKZIP compatible "encryption", look at  
<http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

No license file was found, but licenses were detected in source scan.

/\* inftrees.h -- header to use inftrees.c

\* Copyright (C) 1995-2005, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.h

No license file was found, but licenses were detected in source scan.

/\* gzappend -- command to append to a gzip file

Copyright (C) 2003, 2012 Mark Adler, all rights reserved  
version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/examples/gzappend.c

No license file was found, but licenses were detected in source scan.

```
/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
```

No license file was found, but licenses were detected in source scan.

```
/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
```

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
```

No license file was found, but licenses were detected in source scan.

```
/* unzip.h -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )
```

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64  
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip  
Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----

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-----

## Changes

See header of unzip64.c

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

No license file was found, but licenses were detected in source scan.

/\* gzjoin -- command to join gzip files into one gzip file

Copyright (C) 2004, 2005, 2012 Mark Adler, all rights reserved  
version 1.2, 14 Aug 2012

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\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

No license file was found, but licenses were detected in source scan.

/\* crc32.c -- compute the CRC-32 of a data stream

\* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*

\* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster

\* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing

\* tables for updating the shift register in one step with three exclusive-ors

\* instead of four steps with four exclusive-ors. This results in about a

\* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c

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/\* inffast.c -- fast decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

No license file was found, but licenses were detected in source scan.

/\* zutil.c -- target dependent utility functions for the compression library

\* Copyright (C) 1995-2017 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c

No license file was found, but licenses were detected in source scan.

/\* inflate.h -- internal inflate state definition

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h

No license file was found, but licenses were detected in source scan.

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017
```

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jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
```

No license file was found, but licenses were detected in source scan.

```
/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
```

No license file was found, but licenses were detected in source scan.

```
/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)
```

Copyright (C) 1998-2010 Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications for Zip64 support

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
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-----  
Changes

See header of zip.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

No license file was found, but licenses were detected in source scan.

/\* inftrees.c -- generate Huffman trees for efficient decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):



\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c

No license file was found, but licenses were detected in source scan.

/\* inflate.c -- zlib decompression

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

No license file was found, but licenses were detected in source scan.

/\* zpipe.c: example of proper use of zlib's inflate() and deflate()

Not copyrighted -- provided to the public domain

Version 1.4 11 December 2005 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c

No license file was found, but licenses were detected in source scan.

## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson <[markn@ieee.org](mailto:markn@ieee.org)> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/> .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/> .

A Perl interface to zlib written by Paul Marquess <[pmqs@cpan.org](mailto:pmqs@cpan.org)> is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/> .

A Python interface to zlib written by A.M. Kuchling <[amk@amk.ca](mailto:amk@amk.ca)> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <[info@winimage.com](mailto:info@winimage.com)>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formerly OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.

- gzopen is not supported on RISCOS or BEOS.

- For PalmOs, see <http://palmzlib.sourceforge.net/>

#### Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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jloup@gzip.org      madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate \*not\* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README

No license file was found, but licenses were detected in source scan.

```
/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
```

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Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
```

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```
/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
```

No license file was found, but licenses were detected in source scan.

```
/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.1 29 Sep 2012 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
```

No license file was found, but licenses were detected in source scan.

```
/* inffback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffback.c
```

No license file was found, but licenses were detected in source scan.

```
/* gzlog.h
```

```
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved  
version 2.2, 14 Aug 2012
```

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```
Mark Adler  madler@alumni.caltech.edu
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
```

No license file was found, but licenses were detected in source scan.

```
/* fitblk.c: example of fitting compressed output to a specified size
```

```
Not copyrighted -- provided to the public domain
```

```
Version 1.1 25 November 2004 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
```

No license file was found, but licenses were detected in source scan.

```
/* zlib.c -- zlib functions common to reading and writing gzip files
```

```
* Copyright (C) 2004-2017 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
```

No license file was found, but licenses were detected in source scan.

```
/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/test/infcover.c
```

# 1.681 zlib 1.2.13

## 1.681.1 Available under license :

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# 1.682 apache-commons-text 1.10.0

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```
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```

# 1.684 go-ntlmssp 0.0.0-20200615164410-66371956d46c

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## 1.685 x-sync 0.1.0

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## 1.687 go-errors-errors 1.4.2

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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/TypeAdapterFactory.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/JsonReaderInternalAccess.java  
\*  
/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/TypeAdapter.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/TypeAdapters.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/JsonTreeReader.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/JsonTreeWriter.java  
\*  
/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java  
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jar/com/google/gson/internal/bind/DateTypeAdapter.java
```

```
*/opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/internal/LazilyParsedNumber.java
```

```
*/opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/internal/bind/TreeTypeAdapter.java
```

```
*/
/opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java
```

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/ConstructorConstructor.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/UnsafeAllocator.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java  
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/PreJava9DateFormatProvider.java  
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/Primitives.java

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/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/FieldNamingStrategy.java

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/annotations/Expose.java

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/ObjectConstructor.java

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/annotations/Until.java

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonSerializationContext.java

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/ExclusionStrategy.java

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/\$Gson\$Preconditions.java

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonElement.java

\*

/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonPrimitive.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonSerializer.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/InstanceCreator.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/Excluder.java  
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonIOException.java  
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonDeserializer.java  
\*  
/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/GsonBuilder.java  
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jar/com/google/gson/ToNumberPolicy.java
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```
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/FieldAttributes.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/JsonStreamParser.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/LongSerializationPolicy.java
*
```

/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonParser.java  
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jar/com/google/gson/stream/JsonReader.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/stream/JsonToken.java
*
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```
/opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/annotations/JsonAdapter.java

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## 1.689 toml 1.2.1

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/opt/cola/permits/1470661767_1673053540.47054/0/victoriametrics-1-17-3-tar/VictoriaMetrics-1.17.3/vm-logo-  
zip/VM_logo/Horizontal_orientation/VM_logo2_HRZNTL.eps: binary file matches  
/opt/cola/permits/1470661767_1673053540.47054/0/victoriametrics-1-17-3-tar/VictoriaMetrics-1.17.3/vm-logo-  
zip/VM_logo/Horizontal_orientation/VM_logo2_HRZNTL_white.eps: binary file matches  
/opt/cola/permits/1470661767_1673053540.47054/0/victoriametrics-1-17-3-tar/VictoriaMetrics-1.17.3/vm-logo-  
zip/VM_logo/Standard_orientation/VM_logo1.eps: binary file matches  
/opt/cola/permits/1470661767_1673053540.47054/0/victoriametrics-1-17-3-tar/VictoriaMetrics-1.17.3/vm-logo-  
zip/VM_logo/Standard_orientation/VM_logo1_white.eps: binary file matches  
/opt/cola/permits/1470661767_1673053540.47054/0/victoriametrics-1-17-3-tar/VictoriaMetrics-1.17.3/vm-logo-  
zip/VM_logo/Symbol/VM_symbol.eps: binary file matches  
/opt/cola/permits/1470661767_1673053540.47054/0/victoriametrics-1-17-3-tar/VictoriaMetrics-1.17.3/vm-logo-  
zip/VM_logo/Symbol/VM_symbol_white.eps:  
binary file matches
```

Found in path(s):

```
* /bin/grep
```

## 1.696 cobra 1.6.1

### 1.696.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
// Awesomeplete - Lea Verou - MIT license
```

Found in path(s):

```
* /opt/cola/permits/1472047420_1668406183.0892942/0/project-nisei-cobra-v1-6-1-0-g6ee412e-tar-gz/Project-  
NISEI-cobra-6ee412e/app/assets/javascripts/awesomeplete.js
```

## 1.697 scala 2.13.10

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.

Note: Tuples cannot be directly deconstructed in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (a, b) => ... }`

```
val x: ((Int, Int) => Int) = (((a, b)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

Note: Tuples cannot be directly deconstructed in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }`

```
val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly deconstructed in method or function parameters.

Either create a single parameter accepting the

Tuple3,

or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }`

```
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
```

^

3 errors

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```
{% if site.thisScalaVersion != site.latestScalaVersion %}
```

```
<div class="version-notice">This is the specification of {{ site.versionCompareMessage }} version of Scala. See  
the <a href="{{ site.baseurl }}/../{{ site.latestScalaVersion }}">Scala {{ site.latestScalaVersion }} spec</a>.</div>
```

```
{% endif %}
```

Scala includes the ASM library.

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Manifest-Version: 1.0

Automatic-Module-Name: scala.compat.java8

Bnd-LastModified: 1635385851336

Bundle-Description: scala-java8-compat

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>;description=Apache-2.0

Bundle-ManifestVersion: 2

Bundle-Name: scala-java8-compat

Bundle-SymbolicName: org.scala-lang.modules.scala-java8-compat

Bundle-Vendor: org.scala-lang.modules

Bundle-Version: 1.0.2

Created-By: 1.8.0\_312 (Temurin)

Export-Package: scala.compat.java8;version="1.0.2";uses:="scala,scala.collection,scala.collection.convert,scala.compat.java8.converterImpl,scala.concurrent,scala.concurrent.duration,scala.jdk,scala.reflect,scala.runtime,scala.runtime.java8",scala.compat.java8.FunctionConverter;version="1.0.2";uses:="scala,scala.compat.java8,scala.reflect,scala.runtime",scala.compat.java8.collectionImpl;version="1.0.2";uses:="scala.collection,scala.jdk,scala.reflect",scala.compat.java8.converterImpl;version="1.0.2";uses:="scala,scala.collection,scala.collection.convert,scala.jdk,scala.reflect,scala.runtime",scala.compat.java8.functionConverterImpls;version="1.0.2";uses:="scala,scala.reflect,scala.runtime",scala.compat.java8.wrappers;version="1.0.2"

Implementation-Title: scala-java8-compat

Implementation-URL: <http://www.scala-lang.org/>

Implementation-Vendor: org.scala-lang.modules

Implementation-Vendor-Id: org.scala-lang.modules  
Implementation-Version: 1.0.2  
Import-Package: scala;version="[2.13,3)",scala.collection;version="[2.13,3)",scala.collection.convert;version="[2.13,3)",scala.collection.mutable;version="[2.13,3)",scala.compat.java8.collectionImpl;version="[1.0,2)",scala.compat.java8.converterImpl;version="[1.0,2)",scala.compat.java8.functionConverterImpls;version="[1.0,2)",scala.compat.java8.wrappers;version="[1.0,2)",scala.concurrent;version="[2.13,3)",scala.concurrent.duration;version="[2.13,3)",scala.concurrent.impl;version="[2.13,3)",scala.jdk;version="[2.13,3)",scala.jdk.javaapi;version="[2.13,3)",scala.reflect;version="[2.13,3)",scala.runtime;version="[2.13,3)",scala.runtime.java8;version="[2.13,3)",scala.util;version="[2.13,3)"  
Private-Package: scala.concurrent.java8  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"  
Specification-Title: scala-java8-compat  
Specification-Vendor: org.scala-lang.modules  
Specification-Version: 1.0.2  
Tool: Bnd-5.1.2.202007211702

Found in path(s):

\* /opt/cola/permits/1501589067\_1670483251.2627988/0/scala-java8-compat-2-13-1-0-2-2-jar/META-INF/MANIFEST.MF

# 1.702 utils 0.0.0-20221107191617-1a15be271d1d

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## 1.703 zap 1.24.0

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lib/erl/src/Makefile.am

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-----  
For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4 components:

```
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#
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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
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-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
//////////////////////////////////////////////////////////////////
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-----  
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in t\_html\_generator.h

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\*

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For `t_cl_generator.cc`

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# 1.705 scala-reflect 2.13.10

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```
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/RocksMutableObject.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/AbstractNativeReference.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Holder.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/AbstractImmutableNativeReference.java
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* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/VectorMemTableConfig.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/AbstractTableFilter.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/MutableOptionValue.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/HashLinkedListMemTableConfig.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/AbstractMutableOptions.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/TableProperties.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/util/Environment.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/MutableOptionKey.java
```

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*
/opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/SkipListMemTableConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/SizeApproximationFlag.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CompactionStopStyle.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/HashSkipListMemTableConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/MutableDBOptionsInterface.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TableFilter.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/TransactionLogIterator.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/NativeLibraryLoader.java
*
/opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/InfoLogLevel.java
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* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/ThreadStatus.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/BlockBasedTableConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/HistogramType.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/RocksDBException.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/TableFormatConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CompactionOptions.java
*
/opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/ExternalFileIngestionInfo.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CompactionJobInfo.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/OptimisticTransactionOptions.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/RocksObject.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/SstFileWriter.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Statistics.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/AbstractCompactionFilterFactory.java
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\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/DbPath.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/StatisticsCollectorCallback.java  
\*  
/opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/StateType.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TxnDBWritePolicy.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/PersistentCache.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/WalProcessingOption.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Experimental.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Logger.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/ReusedSynchronisationType.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/DBOptionsInterface.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/AbstractTransactionNotifier.java  
\*  
/opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/ClockCache.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/ColumnFamilyMetaData.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/WALRecoveryMode.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/WriteBatchInterface.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/CompactionOptionsFIFO.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/NativeComparatorWrapper.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/ThreadType.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TtlDB.java  
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/opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/MutableColumnFamilyOptionsInterface.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/LevelMetaData.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/AbstractWalFilter.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/WriteStallInfo.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/OptionsUtil.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/RocksCallbackObject.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/util/SizeUnit.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/ColumnFamilyDescriptor.java



\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/CompactionOptionsUniversal.java  
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/opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/ColumnFamilyHandle.java  
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\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Snapshot.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/MemoryUtil.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/SstFileReader.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/BackupEngine.java  
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\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/PlainTableConfig.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/StatsCollectorInput.java  
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/opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/IndexShorteningMode.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Range.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/RocksDB.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/ComparatorOptions.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/CompactionPriority.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/util/ReverseBytewiseComparator.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/WriteBatch.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/RateLimiterMode.java  
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\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/HistogramData.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Slice.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/ColumnFamilyOptions.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/ReadTier.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/WriteStallCondition.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Status.java

\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TransactionDBOptions.java  
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/opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/AccessHint.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TraceWriter.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/DirectSlice.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/AdvancedMutableColumnFamilyOptionsInterface.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/MemoryUsageType.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TransactionOptions.java  
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\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/StatisticsCollector.java  
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\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/EncodingType.java  
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\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/CompactionJobStats.java  
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\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/CompressionType.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/RocksEnv.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/FileOperationInfo.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-

jar/org/rocksdb/BuiltinComparator.java  
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/opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/IndexType.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TableFileCreationReason.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TransactionalDB.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/DataBlockIndexType.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/AbstractCompactionFilter.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TransactionalOptions.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/WriteBufferManager.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/AbstractTraceWriter.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TableFileCreationInfo.java  
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/opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/OptionString.java  
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\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/BackupEngineOptions.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/CompactRangeOptions.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/EventListener.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/RocksIterator.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Filter.java  
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/opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/AbstractComparatorJniBridge.java  
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\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Env.java  
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\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/RocksIteratorInterface.java

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/opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/WalFileType.java  
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\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Checkpoint.java  
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/opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/DBOptions.java  
\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-

```
jar/org/rocksdb/OptimisticTransactionDB.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/MemTableInfo.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/SstPartitionerFixedPrefixFactory.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Cache.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CompressionOptions.java
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```

```
Found in path(s):
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/MergeOperator.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/StringAppendOperator.java
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```
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Found in path(s):
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/UInt64AddOperator.java
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Found in path(s):
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CassandraValueMergeOperator.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CassandraCompactionFilter.java
```

## 1.713 mschoch-smat 0.2.0

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## 1.722 x-sys 0.4.0

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## 1.723 go-openapi-jsonpointer 0.19.6

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## 1.727 prometheus-client 0.2.0

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## 1.728 xxhash 2.2.0

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# 1.732 python-setuptools 45.2.0-1ubuntu0.1

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as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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```
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```

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject` (or to the relevant plugin repository)

- <https://github.com/abravalheri/validate-pyproject/issues>

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- `fastjsonschema\_exceptions.py`:
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- `extra\_validations.py` and `format.py`, `error\_reporting.py`:
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`fastjsonschema`  
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`validate-pyproject`

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\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

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\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

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- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield  
<<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
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- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>

- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
<asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes

- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <https://evanmeagher.net>



- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <jayvdb@gmail.com>
  - \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <andy.m.caldwell@gmail.com>
  - \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <ville.skytta@iki.fi>
  - \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <smtakeda@gmail.com>
  - \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <jesse@jesseshapiro.net>
  - \* Various character-encoding fixes/tweaks
  - \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <http://dafoster.net/>
  - \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <jeremy@jcline.org>
  - \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
  - \* History list to Retry object.
  - \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
  - \* Ensure timeouts are not booleans and greater than zero.
  - \* Fixed infinite loop in ``stream`` when amt=None.
  - \* Added length\_remaining to determine remaining data to be read.
  - \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
  - \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
  - \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
  - \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
  - \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>

- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  - \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
  - \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
  - \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
  - \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
  - \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
  - \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
  - \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
  - \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
  - \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  - \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
  - \* Improve contribution guide
  - \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
  - \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>
  - \* Drop support for EOL Python 2.6
  
- \* Tim Bell <https://github.com/timb07>
  - \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <https://github.com/jbramleycl>
  - \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>



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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/widget/AutopairWidgets.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/console/CommandRegistry.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/widget/Widgets.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/LineReaderBuilder.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jna/JnaNativePty.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/JansiTerminalProvider.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/JansiNativePty.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/widget/AutosuggestionWidgets.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jna/osx/CLibrary.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/console/ScriptEngine.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/DefaultParser.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-

```
jar/org/jline/console/impl/JlineCommandRegistry.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/console/CmdDesc.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/CommandMethods.java
*
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/AbstractCommandRegistry.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/ColorPalette.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/ReaderUtils.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/Signals.java
*
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/CompletionMatcher.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/jna/JnaTerminalProvider.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/completer/SystemCompleter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/EndOfFileException.java
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*
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/SyntaxError.java
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jar/org/jline/builtins/telnet/ConnectionFactory.java
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```
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionListener.java
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```
class = org.jline.terminal.impl.exec.ExecTerminalProvider
```

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* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/META-  
INF/services/org/jline/terminal/provider/exec
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class = org.jline.terminal.impl.jansi.JansiTerminalProvider
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INF/services/org/jline/terminal/provider/jansi

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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/win/WindowsAnsiWriter.java

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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/telnet/PortListener.java

\*

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jar/org/jline/builtins/telnet/Connection.java

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jar/org/jline/builtins/telnet/TelnetIO.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionEvent.java

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jar/org/jline/builtins/telnet/ConnectionManager.java

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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/package-info.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/reader/impl/completer/package-info.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java  
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 /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Reference.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/completer/NullCompleter.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/completer/EnumCompleter.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/ExecPty.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/ShutdownHooks.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/OSUtils.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Expander.java  
 \*  
 /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/MouseEvent.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/CursorSupport.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/ClosedException.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/ExecHelper.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/DiffHelper.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/UserInterruptException.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Binding.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/InputStreamReader.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/DefaultExpander.java  
 \*  
 /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/UndoTree.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Macro.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/spi/Pty.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/spi/WCWidth.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Widget.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/package-info.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/Levenshtein.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/AttributedString.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/Cursor.java  
 \*

```
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/history/package-info.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/Attributes.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/MouseSupport.java
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```
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```

```
auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_sms0, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc,
NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
```

over\_strike, os, os  
prtr\_silent, mc5i, 5i  
row\_addr\_glitch, xvpa, YD  
semi\_auto\_right\_margin, sam, YE  
status\_line\_esc\_ok, eslok, es  
tilde\_glitch, hz, hz  
transparent\_underline, ul, ul  
xon\_xoff, xon, xo  
columns, cols, co  
init\_tabs, it, it  
label\_height, lh, lh  
label\_width, lw, lw  
lines, lines, li  
lines\_of\_memory, lm, lm  
magic\_cookie\_glitch, xmc, sg  
max\_attributes, ma, ma  
max\_colors, colors, Co  
max\_pairs, pairs, pa  
maximum\_windows, wnum, MW  
no\_color\_video, ncv, NC  
num\_labels, nlab, NI  
padding\_baud\_rate, pb, pb  
virtual\_terminal, vt, vt  
width\_status\_line, wsl, ws  
bit\_image\_entwining, bitwin, Yo  
bit\_image\_type, bitype, Yp  
buffer\_capacity, bufsz, Ya  
buttons, btns, BT  
dot\_horz\_spacing, spinh, Yc  
dot\_vert\_spacing, spinv, Yb  
max\_micro\_address, maddr, Yd  
max\_micro\_jump, mjump, Ye  
micro\_col\_size, mcs, Yf  
micro\_line\_size, mls, Yg  
number\_of\_pins, npins, Yh  
output\_res\_char, orc, Yi  
output\_res\_horz\_inch, orhi, Yk  
output\_res\_line, orl, Yj  
output\_res\_vert\_inch,  
orvi, Yl  
print\_rate, cps, Ym  
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acs\_chars, acsc, ac  
back\_tab, cbt, bt  
bell, bel, bl  
carriage\_return, cr, cr  
change\_char\_pitch, cpi, ZA  
change\_line\_pitch, lpi, ZB

change\_res\_horz, chr, ZC  
change\_res\_vert, cvr, ZD  
change\_scroll\_region, csr, cs  
char\_padding, rmp, rP  
clear\_all\_tabs, tbc, ct  
clear\_margins, mgc, MC  
clear\_screen, clear, cl  
clr\_bol, e1l, cb  
clr\_eol, el, ce  
clr\_eos, ed, cd  
column\_address, hpa, ch  
command\_character, cmdch, CC  
create\_window, cwin, CW  
cursor\_address, cup, cm  
cursor\_down, cud1, do  
cursor\_home, home, ho  
cursor\_invisible, civis, vi  
cursor\_left, cub1, le  
cursor\_mem\_address, mrcup, CM  
cursor\_normal, cnorm, ve  
cursor\_right, cuf1, nd  
cursor\_to\_ll, ll, ll  
cursor\_up, cuu1, up  
cursor\_visible, cvvis, vs  
define\_char, defc, ZE  
delete\_character, dch1, dc  
delete\_line, dl1, dl  
dial\_phone, dial, DI  
dis\_status\_line, dsl, ds  
display\_clock, dclk, DK  
down\_half\_line, hd, hd  
ena\_acs, enacs, eA  
enter\_alt\_charset\_mode, smacs, as  
enter\_am\_mode, smam,  
SA  
enter\_blink\_mode, blink, mb  
enter\_bold\_mode, bold, md  
enter\_ca\_mode, smcup, ti  
enter\_delete\_mode, smdc, dm  
enter\_dim\_mode, dim, mh  
enter\_doublewide\_mode, swidm, ZF  
enter\_draft\_quality, sdrfq, ZG  
enter\_insert\_mode, smir, im  
enter\_italics\_mode, sitm, ZH  
enter\_leftward\_mode, slm, ZI  
enter\_micro\_mode, smicm, ZJ  
enter\_near\_letter\_quality, snlq, ZK  
enter\_normal\_quality, snrmq, ZL

enter\_protected\_mode, prot, mp  
enter\_reverse\_mode, rev, mr  
enter\_secure\_mode, invis, mk  
enter\_shadow\_mode, sshm, ZM  
enter\_standout\_mode, smso, so  
enter\_subscript\_mode, ssubm, ZN  
enter\_superscript\_mode, ssupm, ZO  
enter\_underline\_mode, smul, us  
enter\_upward\_mode, sum, ZP  
enter\_xon\_mode, smxon, SX  
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exit\_alt\_charset\_mode, rmacs, ae  
exit\_am\_mode, rmam, RA  
exit\_attribute\_mode, sgr0, me  
exit\_ca\_mode, rmcup, te  
exit\_delete\_mode, rmdc, ed  
exit\_doublewide\_mode, rwidm, ZQ  
exit\_insert\_mode, rmir, ei  
exit\_italics\_mode, ritm, ZR  
exit\_leftward\_mode, rlm, ZS  
exit\_micro\_mode, rmicm, ZT  
exit\_shadow\_mode, rshm,  
ZU  
exit\_standout\_mode, rmso, se  
exit\_subscript\_mode, rsubm, ZV  
exit\_superscript\_mode, rsupm, ZW  
exit\_underline\_mode, rmul, ue  
exit\_upward\_mode, rum, ZX  
exit\_xon\_mode, rmxon, RX  
fixed\_pause, pause, PA  
flash\_hook, hook, fh  
flash\_screen, flash, vb  
form\_feed, ff, ff  
from\_status\_line, fsl, fs  
goto\_window, wingo, WG  
hangup, hup, HU  
init\_1string, is1, i1  
init\_2string, is2, is  
init\_3string, is3, i3  
init\_file, if, if  
init\_prog, iprog, iP  
initialize\_color, initc, Ic  
initialize\_pair, initp, Ip  
insert\_character, ich1, ic  
insert\_line, il1, al  
insert\_padding, ip, ip  
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key\_a3, ka3, K3

key\_b2, kb2, K2  
key\_backspace, kbs, kb  
key\_beg, kbeg, @1  
key\_btab, kcbt, kB  
key\_c1, kc1, K4  
key\_c3, kc3, K5  
key\_cancel, kcan, @2  
key\_catab, ktbc, ka  
key\_clear, kclr, kC  
key\_close, kclo, @3  
key\_command, kcmd, @4  
key\_copy, kcpy, @5  
key\_create, kcrt, @6  
key\_ctab, kctab, kt  
key\_dc, kdch1, kD  
key\_dl, kdl1, kL  
key\_down, kcud1, kd  
key\_eic, krmir, kM  
key\_end, kend, @7  
key\_enter, kent, @8  
key\_eol, kel, kE  
key\_eos,  
ked, kS  
key\_exit, kext, @9  
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key\_f40, kf40, FU  
key\_f41, kf41, FV  
key\_f42, kf42, FW  
key\_f43, kf43, FX  
key\_f44, kf44, FY  
key\_f45, kf45, FZ  
key\_f46, kf46, Fa  
key\_f47, kf47, Fb  
key\_f48, kf48, Fc  
key\_f49, kf49, Fd  
key\_f5, kf5, k5  
key\_f50, kf50, Fe  
key\_f51, kf51, Ff  
key\_f52, kf52, Fg  
key\_f53, kf53, Fh  
key\_f54, kf54, Fi  
key\_f55, kf55, Fj  
key\_f56, kf56, Fk  
key\_f57, kf57, Fl  
key\_f58, kf58,  
Fm  
key\_f59, kf59, Fn  
key\_f6, kf6, k6  
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key\_f61, kf61, Fp  
key\_f62, kf62, Fq  
key\_f63, kf63, Fr  
key\_f7, kf7, k7  
key\_f8, kf8, k8  
key\_f9, kf9, k9  
key\_find, kfnd, @0  
key\_help, khlp, %1  
key\_home, khome, kh  
key\_ic, kich1, kI  
key\_il, kill, kA  
key\_left, kcub1, kl  
key\_ll, kll, kH



key\_mark, kmrk, %2  
key\_message, kmsg, %3  
key\_move, kmov, %4  
key\_next, knxt, %5  
key\_npage, knp, kN  
key\_open, kopn, %6  
key\_options, kopt, %7  
key\_ppage, kpp, kP  
key\_previous, kprv, %8  
key\_print, kpri, %9  
key\_redo, krdo, %0  
key\_reference, kref, &1  
key\_refresh, krfr, &2  
key\_replace, krpl, &3  
key\_restart, krst, &4  
key\_resume, kres, &5  
key\_right, kcuf1, kr  
key\_save, ksav, &6  
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key\_shome, kHOM, #2  
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key\_sleft, kLFT, #4  
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key\_smove, kMOV, %b  
key\_snext, kNXT, %c  
key\_soptions, kOPT, %d  
key\_sprevious, kPRV, %e  
key\_sprint, kPRT, %f  
key\_sr, kri, kR  
key\_sredo, kRDO, %g  
key\_sreplace, kRPL, %h  
key\_sright, kRIT, %i  
key\_sresume, kRES, %j  
key\_ssave, kSAV, !1

key\_ssuspend, kSPD, !2  
key\_stab, khts, kT  
key\_sundo, kUND, !3  
key\_suspend, kspd, &7  
key\_undo, kund, &8  
key\_up, kcuu1, ku  
keypad\_local, rmkx, ke  
keypad\_xmit, smkx, ks  
lab\_f0, lf0, l0  
lab\_f1, lf1, l1  
lab\_f10, lf10, la  
lab\_f2, lf2, l2  
lab\_f3, lf3, l3  
lab\_f4, lf4, l4  
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lab\_f6, lf6, l6  
lab\_f7, lf7, l7  
lab\_f8, lf8, l8  
lab\_f9, lf9, l9  
label\_format, fln, Lf  
label\_off, rmln, LF  
label\_on, smln, LO  
meta\_off, rmm, mo  
meta\_on, smm, mm  
micro\_column\_address, mhpa, ZY  
micro\_down, mcud1, ZZ  
micro\_left, mcub1, Za  
micro\_right, mcuf1, Zb  
micro\_row\_address, mypa, Zc  
micro\_up, mceu1, Zd  
newline, nel, nw  
order\_of\_pins, porder, Ze  
orig\_colors, oc, oc  
orig\_pair, op, op  
pad\_char, pad, pc  
parm\_dch, dch, DC  
parm\_delete\_line, dl, DL  
parm\_down\_cursor, cud, DO  
parm\_down\_micro,  
mcud, Zf  
parm\_ich, ich, IC  
parm\_index, indn, SF  
parm\_insert\_line, il, AL  
parm\_left\_cursor, cub, LE  
parm\_left\_micro, mcub, Zg  
parm\_right\_cursor, cuf, RI  
parm\_right\_micro, mcuf, Zh  
parm\_rindex, rin, SR

parm\_up\_cursor, cuu, UP  
parm\_up\_micro, mcuu, Zi  
pkey\_key, pfkey, pk  
pkey\_local, pfloc, pl  
pkey\_xmit, pfx, px  
plab\_norm, pln, pn  
print\_screen, mc0, ps  
prtr\_non, mc5p, pO  
prtr\_off, mc4, pf  
prtr\_on, mc5, po  
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quick\_dial, qdial, QD  
remove\_clock, rmclk, RC  
repeat\_char, rep, rp  
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reset\_2string, rs2, r2  
reset\_3string, rs3, r3  
reset\_file, rf, rf  
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row\_address, vpa, cv  
save\_cursor, sc, sc  
scroll\_forward, ind, sf  
scroll\_reverse, ri, sr  
select\_char\_set, scs, Zj  
set\_attributes, sgr, sa  
set\_background, setb, Sb  
set\_bottom\_margin, smgb, Zk  
set\_bottom\_margin\_parm, smgbp, Zl  
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set\_color\_pair, scp, sp  
set\_foreground, setf, Sf  
set\_left\_margin, smgl, ML  
set\_left\_margin\_parm, smglp, Zm  
set\_right\_margin,  
smgr, MR  
set\_right\_margin\_parm, smgrp, Zn  
set\_tab, hts, st  
set\_top\_margin, smgt, Zo  
set\_top\_margin\_parm, smgtp, Zp  
set\_window, wind, wi  
start\_bit\_image, sbim, Zq  
start\_char\_set\_def, scsd, Zr  
stop\_bit\_image, rbim, Zs  
stop\_char\_set\_def, rcsd, Zt  
subscript\_characters, subcs, Zu  
superscript\_characters, supcs, Zv  
tab, ht, ta

these\_cause\_cr, dochr, Zw  
to\_status\_line, tsl, ts  
tone, tone, TO  
underline\_char, uc, uc  
up\_half\_line, hu, hu  
user0, u0, u0  
user1, u1, u1  
user2, u2, u2  
user3, u3, u3  
user4, u4, u4  
user5, u5, u5  
user6, u6, u6  
user7, u7, u7  
user8, u8, u8  
user9, u9, u9  
wait\_tone, wait, WA  
xoff\_character, xoffc, XF  
xon\_character, xonc, XN  
zero\_motion, zerom, Zx  
alt\_scancode\_esc, scesa, S8  
bit\_image\_carriage\_return, bicr, Yv  
bit\_image\_newline, binel, Zz  
bit\_image\_repeat, birep, Xy  
char\_set\_names, csnm, Zy  
code\_set\_init, csin, ci  
color\_names, colorm, Yw  
define\_bit\_image\_region, defbi, Yx  
device\_type, devt, dv  
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enter\_pc\_charset\_mode,  
smpch, S2  
enter\_scancode\_mode, smsc, S4  
exit\_pc\_charset\_mode, rmpch, S3  
exit\_scancode\_mode, rmsc, S5  
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pc\_term\_options, pctrm, S6  
pkey\_plab, pfxl, xl  
req\_mouse\_pos, reqmp, RQ  
scancode\_escape, scesc, S7  
set0\_des\_seq, s0ds, s0  
set1\_des\_seq, s1ds, s1  
set2\_des\_seq, s2ds, s2  
set3\_des\_seq, s3ds, s3  
set\_a\_background, setab, AB  
set\_a\_foreground, setaf, AF

set\_color\_band, setcolor, Yz  
set\_lr\_margin, smglr, ML  
set\_page\_length, slines, YZ  
set\_tb\_margin, smgtb, MT  
enter\_horizontal\_hl\_mode, ehhl, Xh  
enter\_left\_hl\_mode, elhl, Xl  
enter\_low\_hl\_mode, elohl, Xo  
enter\_right\_hl\_mode, erhl, Xr  
enter\_top\_hl\_mode, ethl, Xt  
enter\_vertical\_hl\_mode, evhl, Xv  
set\_a\_attributes, sgr1, sA  
set\_pglen\_inch, slength, sL

Found in path(s):

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Found in path(s):

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/ScreenTerminal.java
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```

```
#
```

```
black
```

```
maroon
```

```
green
```

```
olive
```

```
navy
```

```
purple
```

```
teal
```

```
silver
```

```
grey
```

```
red
```

```
lime
```

```
yellow
```

```
blue
```

```
fuchsia
```

```
aqua
```

```
white
```

```
grey0
```

```
navyblue
```

```
darkblue
```

```
blue3
```

```
blue3a
```

```
blue1
```

```
darkgreen
```

```
deepskyblue4
```

```
deepskyblue4a
```

```
deepskyblue4b
```

```
dodgerblue3
```

```
dodgerblue2
```

```
green4
```

```
springgreen4
```

```
turquoise4
```

```
deepskyblue3
```

```
deepskyblue3a
```

```
dodgerblue1
```

```
green3
```

springgreen3  
darkcyan  
lightseagreen  
deepskyblue2  
deepskyblue1  
green3a  
springgreen3a  
springgreen2  
cyan3  
darkturquoise  
turquoise2  
green1  
springgreen2a  
springgreen1  
mediumspringgreen  
cyan2  
cyan1  
darkred  
deeppink4  
purple4  
purple4a  
purple3  
blueviolet  
orange4  
grey37  
mediumpurple4  
slateblue3  
slateblue3a  
royalblue1  
chartreuse4  
darkseagreen4  
paleturquoise4  
steelblue  
steelblue3  
cornflowerblue  
chartreuse3  
darkseagreen4a  
cadetblue  
cadetbluea  
skyblue3  
steelblue1  
chartreuse3a  
palegreen3  
seagreen3  
aquamarine3  
mediumturquoise  
steelblue1a  
chartreuse2

seagreen2  
seagreen1  
seagreen1a  
aquamarine1  
darkslategray2  
darkreda  
deeppink4a  
darkmagenta  
darkmagentaa  
darkviolet  
purplea  
orange4a  
lightpink4  
plum4  
mediumpurple3  
mediumpurple3a  
slateblue1  
yellow4  
wheat4  
grey53  
lightslategrey  
mediumpurple  
lightslateblue  
yellow4a  
darkolivegreen3  
darkseagreen  
lightskyblue3  
lightskyblue3a  
skyblue2  
chartreuse2a  
darkolivegreen3a  
palegreen3a  
darkseagreen3  
darkslategray3  
skyblue1  
chartreuse1  
lightgreen  
lightgreena  
palegreen1  
aquamarine1a  
darkslategray1  
red3  
deeppink4b  
mediumvioletred  
magenta3  
darkvioleta  
purpleb  
darkorange3



indianred  
hotpink3  
mediumorchid3  
mediumorchid  
mediumpurple2  
darkgoldenrod  
lightsalmon3  
rosybrown  
grey63  
mediumpurple2a  
mediumpurple1  
gold3  
darkkhaki  
navajowhite3  
grey69  
lightsteelblue3  
lightsteelblue  
yellow3  
darkolivegreen3b  
darkseagreen3a  
darkseagreen2  
lightcyan3  
lightskyblue1  
greenyellow  
darkolivegreen2  
palegreen1a  
darkseagreen2a  
darkseagreen1  
paleturquoise1  
red3a  
deepink3  
deepink3a  
magenta3a  
magenta3b  
magenta2  
darkorange3a  
indianreda  
hotpink3a  
hotpink2  
orchid  
mediumorchid1  
orange3  
lightsalmon3a  
lightpink3  
pink3  
plum3  
violet  
gold3a

lightgoldenrod3  
tan  
mistyrose3  
thistle3  
plum2  
yellow3a  
khaki3  
lightgoldenrod2  
lightyellow3  
grey84  
lightsteelblue1  
yellow2  
darkolivegreen1  
darkolivegreen1a  
darkseagreen1a  
honeydew2  
lightcyan1  
red1  
deeppink2  
deeppink1  
deeppink1a  
magenta2a  
magenta1  
orangered1  
indianred1  
indianred1a  
hotpink  
hotpinka  
mediumorchid1a  
darkorange  
salmon1  
lightcoral  
palevioletred1  
orchid2  
orchid1  
orange1  
sandybrown  
lightsalmon1  
lightpink1  
pink1  
plum1  
gold1  
lightgoldenrod2a  
lightgoldenrod2b  
navajowhite1  
mistyrose1  
thistle1  
yellow1

lightgoldenrod1  
khaki1  
wheat1  
cornsilk1  
grey100  
grey3  
grey7  
grey11  
grey15  
grey19  
grey23  
grey27  
grey30  
grey35  
grey39  
grey42  
grey46  
grey50  
grey54  
grey58  
grey62  
grey66  
grey70  
grey74  
grey78  
grey82  
grey85  
grey89  
grey93

Found

in path(s):

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/colors.txt

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Found in path(s):

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/AbstractTerminal.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Parser.java

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/ConsoleEngineImpl.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/SystemRegistry.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Nano.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/TTop.java
*
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/history/DefaultHistory.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/DefaultHighlighter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/TerminalBuilder.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/AttributedStyle.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Styles.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/PrintAboveWriter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/LineReader.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Completers.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/ConsoleEngine.java
*
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/widget/TailTipWidgets.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/builtins/ConsoleOptionGetter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Highlighter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/utils/AttributedCharSequence.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/console/ArgDesc.java
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```

```
#
class = org.jline.terminal.impl.jna.JnaTerminalProvider
```

Found in path(s):

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/services/org/jline/terminal/provider/jna
```

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```

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*
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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingPumpReader.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/NopStyleSource.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Buffer.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleColor.java
```

```
*
```

```
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleBundleInvocationHandler.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/telnet/Telnet.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleBundle.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/WriterOutputStream.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/ssh/ShellCommand.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/BufferImpl.java
```

```
*
```

```
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/PumpReader.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
```

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/MemoryStyleSource.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyledWriter.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/InterpolationHelper.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/ssh/Ssh.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/SimpleMaskingCallback.java  
\*

/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleResolver.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/ssh/ShellFactoryImpl.java  
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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/exec/ExecTerminalProvider.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/Diag.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/spi/TerminalProvider.java  
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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-

jar/org/jline/terminal/impl/jna/win/Kernel32.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/History.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/MaskingCallback.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingInputStream.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/AttributedStringBuilder.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/ParsedLine.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/keymap/BindingReader.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/Terminal.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/StyleResolver.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleFactory.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/Styler.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/CompletingParsedLine.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/Size.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlocking.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleExpression.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/KillRing.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/NfaMatcher.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingReader.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/ExternalTerminal.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingReaderImpl.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/Curses.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleSource.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Completer.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/Colors.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/Timeout.java

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/InputRC.java
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```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/DefaultPrinter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/SystemRegistryImpl.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Less.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Commands.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/builtins/SyntaxHighlighter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/console/Printer.java
*
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/LineReaderImpl.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/SystemHighlighter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/Builtins.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Source.java
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```
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terminal/pom.xml
```



\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-builtins/pom.xml  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-style/pom.xml  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-reader/pom.xml  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-terminal-jansi/pom.xml  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-terminal-jna/pom.xml

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Found in path(s):

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Options.java

# 1.735 go-openapi-jsonreference 0.20.2

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## 1.736 wheel 0.34.2-1ubuntu0.1

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## 1.737 six 1.14.0-2

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## 1.738 python-certifi 2019.11.28-1

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.739 logr 1.2.3

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/\*

Source: <https://github.com/algolia/docsearch/>

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\*/

Found in path(s):

\* /opt/cola/permits/1547460093\_1675059036.2293298/0/dbosak01-logr-v1-2-3-0-ge637e6c-tar-gz/dbosak01-logr-e637e6c/docs/docsearch.css

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Package: logr

Title: Creates Log Files

Version: 1.2.3

Authors@R:

```
person(given = "David",
       family = "Bosak",
       role = c("aut", "cre"),
       email = "dbosak01@gmail.com")
```

Description: Contains functions to help create log files. The package aims to overcome the difficulty of the base R `sink()` command. The `log_print()` function will print to both the console and the file log, without interfering in other write operations.

License: CC0

Encoding: UTF-8

URL: <https://logr.r-sassy.org>

BugReports: <https://github.com/dbosak01/logr/issues>

Depends: R (>= 4.0.0)

Suggests: knitr,

rmarkdown,

testthat,

tidylog,

dplyr,

utils

Imports: withr

VignetteBuilder: knitr



Roxygen: list(markdown = TRUE)

RoxygenNote: 7.1.1

Found in path(s):

\* /opt/cola/permits/1547460093\_1675059036.2293298/0/dbosak01-logr-v1-2-3-0-ge637e6c-tar-gz/dbosak01-logr-e637e6c/DESCRIPTION

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\* Bootstrap Table of Contents v0.4.1 (<http://afeld.github.io/bootstrap-toc/>)

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# 1.740 kubernetes-klog 2.80.1

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## 1.744 jackson 2.14.2

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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

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@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>  
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>  
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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# 1.768 gnutls 3.6.13-2ubuntu1.8

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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jar/org/yaml/snakeyaml/parser/Parser.java  
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/**
 * A Base64 encoder/decoder.
 *
 * <p>
 * This class is used to encode and decode data in Base64 format as described in RFC 1521.
 *
 * <p>
 * Project home page: <a href="http://www.source-code.biz/base64coder/java">www.
 * source-code.biz/base64coder/java</a><br>
```



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\*/

Found in path(s):

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java

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## 1.794 jose4j 0.9.3

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\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/resolvers/JwksDecryptionKeyResolver.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jws/HmacUsingShaAlgorithm.java  
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\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-  
jar/org/jose4j/jwe/kdf/ConcatenationKeyDerivationFunctionWithSha256.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-  
jar/org/jose4j/jwe/kdf/ConcatKeyDerivationFunction.java  
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jar/org/jose4j/jwe/kdf/ConcatKeyDerivationFunctionFactory.java  
\*  
/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/kdf/KdfUtil.java  
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\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-  
jar/org/jose4j/base64url/internal/apache/commons/codec/binary/Base64.java  
\*

/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/base64url/internal/apache/commons/codec/binary/BaseNCodec.java

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\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/SelectorSupport.java

\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/DecryptionJwkSelector.java

\*

/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/SimpleJwkFilter.java

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\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/HttpsJwks.java

# 1.795 go-ole-go-ole 1.2.6

## 1.795.1 Available under license :

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# 1.796 apache-http-server 2.4.41-4ubuntu3.14

## 1.796.1 Available under license :

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
```





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var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
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})(window, document);
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href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
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  prettyPrint();
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For the server\util\_md5.c component:

/\*\*\*\*\*

\* NCSA HTTPd Server

\* Software Development Group

\* National Center for Supercomputing Applications

\* University of Illinois at Urbana-Champaign

\* 605 E. Springfield, Champaign, IL 61820

\* httpd@ncsa.uiuc.edu

\*

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

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```

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```

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This package was put together by Matthias Klose <doko@debian.org>.

Upstream source:  
<ftp.gnu.org/pub/gnu/readline/readline-4.3.tar.gz>.

Author: Per Bothner

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```
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## 1.803 docker 23.0.1+incompatible



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# 1.809 jmx-prometheus-javaagent 0.18.0

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\*

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\* /opt/cola/permits/1594592384\_1678980969.0263424/0/jmx-prometheus-javaagent-0-18-0-sources-jar/META-INF/maven/io.prometheus.jmx/jmx\_prometheus\_javaagent\_common/pom.xml

\* /opt/cola/permits/1594592384\_1678980969.0263424/0/jmx-prometheus-javaagent-0-18-0-sources-jar/META-INF/maven/io.prometheus/simpleclient\_hotspot/pom.xml

# 1.810 collector 0.18.0

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# 1.811 jmx\_prometheus\_javaagent\_common 0.18.0

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# 1.812 base-files 11ubuntu5.7

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## 1.813 jetty-client 9.4.51.v20230217

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.



<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.814 jetty-util 9.4.51.v20230217

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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# 1.815 kerberos 1.17-6ubuntu4.3

## 1.815.1 Available under license :

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cmd/krb5/iproplib/iproplib.x
cmd/krb5/iproplib/iproplib_hdr.h
cmd/krb5/kadmin/server/iproplib_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
```

lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
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lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c

lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation,  
including  
the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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\* /opt/cola/permits/1601182112\_1679281943.5494998/0/json-20131018-sources-jar/org/json/JSONStringer.java

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* /opt/cola/permits/1601182112_1679281943.5494998/0/json-20131018-sources-jar/org/json/zip/PostMortem.java
* /opt/cola/permits/1601182112_1679281943.5494998/0/json-20131018-sources-jar/org/json/zip/MapKeep.java
* /opt/cola/permits/1601182112_1679281943.5494998/0/json-20131018-sources-jar/org/json/zip/JSONzip.java
* /opt/cola/permits/1601182112_1679281943.5494998/0/json-20131018-sources-jar/org/json/zip/Compressor.java
* /opt/cola/permits/1601182112_1679281943.5494998/0/json-20131018-sources-jar/org/json/zip/BitOutputStream.java
* /opt/cola/permits/1601182112_1679281943.5494998/0/json-20131018-sources-jar/org/json/Kim.java
* /opt/cola/permits/1601182112_1679281943.5494998/0/json-20131018-sources-jar/org/json/zip/TrieKeep.java
*
/opt/cola/permits/1601182112_1679281943.5494998/0/json-20131018-sources-jar/org/json/zip/Huff.java
* /opt/cola/permits/1601182112_1679281943.5494998/0/json-20131018-sources-jar/org/json/zip/Keep.java
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\* /opt/cola/permits/1601182112\_1679281943.5494998/0/json-20131018-sources-jar/org/json/HTTPTokener.java

\* /opt/cola/permits/1601182112\_1679281943.5494998/0/json-20131018-sources-jar/org/json/CookieList.java

\* /opt/cola/permits/1601182112\_1679281943.5494998/0/json-20131018-sources-jar/org/json/XML.java

\* /opt/cola/permits/1601182112\_1679281943.5494998/0/json-20131018-sources-jar/org/json/CDL.java

\* /opt/cola/permits/1601182112\_1679281943.5494998/0/json-20131018-sources-jar/org/json/XMLTokener.java

\* /opt/cola/permits/1601182112\_1679281943.5494998/0/json-20131018-sources-jar/org/json/JSONTokener.java

\*

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components:

```
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```

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```
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*/
(By Douglas Crockford <douglas@crockford.com>)
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For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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## 1.821 utils 0.0.0-20230220204549-a5ecb0141aa5

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# 1.827 grpc-go 1.54.0

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```
* /opt/cola/permits/1617269193_1679983059.309886/0/jline-remote-ssh-3-22-0-sources-  
jar/org/jline/builtins/ssh/ShellCommand.java  
* /opt/cola/permits/1617269193_1679983059.309886/0/jline-remote-ssh-3-22-0-sources-  
jar/org/jline/builtins/ssh/ShellFactoryImpl.java  
* /opt/cola/permits/1617269193_1679983059.309886/0/jline-remote-ssh-3-22-0-sources-  
jar/org/jline/builtins/ssh/Ssh.java
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# 1.829 jline-terminal-jna 3.22.0

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```
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-  
jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
```

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\* /opt/cola/permits/1617269230\_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java  
\* /opt/cola/permits/1617269230\_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java  
\* /opt/cola/permits/1617269230\_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-jar/org/jline/terminal/impl/jna/osx/CLibrary.java  
\* /opt/cola/permits/1617269230\_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java  
\*  
/opt/cola/permits/1617269230\_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-jar/org/jline/terminal/impl/jna/JnaTerminalProvider.java  
\* /opt/cola/permits/1617269230\_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-jar/org/jline/terminal/impl/jna/JnaNativePty.java

```
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-
jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-
jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-
jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-
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#
class = org.jline.terminal.impl.jna.JnaTerminalProvider
```

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```
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-jar/META-
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```

## 1.830 jline-reader 3.22.0

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```
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
```

```
jar/org/jline/reader/Reference.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/Expander.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/impl/UndoTree.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/impl/completer/package-info.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/impl/history/package-info.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/Binding.java
*
/opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/Widget.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/impl/completer/NullCompleter.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/keymap/KeyMap.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/impl/completer/EnumCompleter.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/UserInterruptedException.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/package-
info.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/impl/DefaultExpander.java
*
/opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/Macro.java
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/opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/EOFError.java

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\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/EndOfFileException.java

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\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/ArgumentCompleter.java

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\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/keymap/BindingReader.java

\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/ParsedLine.java

\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/FileNameCompleter.java

\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/CompletingParsedLine.java

\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/History.java

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* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/LineReader.java  
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/Highlighter.java  
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/CompletionMatcherImpl.java  
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/PrintAboveWriter.java  
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/history/DefaultHistory.java  
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```
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*/
```

Found in path(s):

```
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/LineReaderImpl.java
```

## 1.831 jline-style 3.22.0

### 1.831.1 Available under license :

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```
/*
```



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Found in path(s):

\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-jar/org/jline/style/MemoryStyleSource.java  
\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-jar/org/jline/style/StyleColor.java  
\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-jar/org/jline/style/StyleBundle.java  
\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-jar/org/jline/style/StyledWriter.java  
\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-jar/org/jline/style/StyleBundleInvocationHandler.java  
\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-jar/org/jline/style/StyleResolver.java  
\*  
/opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-jar/org/jline/style/InterpolationHelper.java  
\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-jar/org/jline/style/NopStyleSource.java  
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Found in path(s):

\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-jar/org/jline/style/StyleSource.java  
\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-jar/org/jline/style/Styler.java  
\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-jar/org/jline/style/StyleExpression.java  
\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-jar/org/jline/style/StyleFactory.java

# 1.832 jline-terminal 3.22.0

## 1.832.1 Available under license :

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 */
```

Found in path(s):

```
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-
jar/org/jline/terminal/spi/TerminalProvider.java
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-
jar/org/jline/terminal/impl/Diag.java
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-
jar/org/jline/terminal/impl/exec/ExecTerminalProvider.java
```

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 */
```

Found in path(s):

```
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/utils/Status.java
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-
jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-
jar/org/jline/terminal/impl/AbstractPty.java
```

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```

```
#  
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#  
  
black  
maroon  
green  
olive  
navy  
purple  
teal  
silver  
grey  
red  
lime  
yellow  
blue  
fuchsia  
aqua  
white  
grey0  
navyblue  
darkblue  
blue3  
blue3a  
blue1  
darkgreen  
deepskyblue4  
deepskyblue4a  
deepskyblue4b  
dodgerblue3  
dodgerblue2  
green4  
springgreen4  
turquoise4  
deepskyblue3  
deepskyblue3a  
dodgerblue1  
green3  
springgreen3  
darkcyan  
lightseagreen  
deepskyblue2  
deepskyblue1  
green3a  
springgreen3a  
springgreen2  
cyan3
```

darkturquoise  
turquoise2  
green1  
springgreen2a  
springgreen1  
mediumspringgreen  
cyan2  
cyan1  
darkred  
deeppink4  
purple4  
purple4a  
purple3  
blueviolet  
orange4  
grey37  
mediumpurple4  
slateblue3  
slateblue3a  
royalblue1  
chartreuse4  
darkseagreen4  
paleturquoise4  
steelblue  
steelblue3  
cornflowerblue  
chartreuse3  
darkseagreen4a  
cadetblue  
cadetbluea  
skyblue3  
steelblue1  
chartreuse3a  
palegreen3  
seagreen3  
aquamarine3  
mediumturquoise  
steelblue1a  
chartreuse2  
seagreen2  
seagreen1  
seagreen1a  
aquamarine1  
darkslategray2  
darkreda  
deeppink4a  
darkmagenta  
darkmagentaa

darkviolet  
purplea  
orange4a  
lightpink4  
plum4  
mediumpurple3  
mediumpurple3a  
slateblue1  
yellow4  
wheat4  
grey53  
lightslategrey  
mediumpurple  
lightslateblue  
yellow4a  
darkolivegreen3  
darkseagreen  
lightskyblue3  
lightskyblue3a  
skyblue2  
chartreuse2a  
darkolivegreen3a  
palegreen3a  
darkseagreen3  
darkslategray3  
skyblue1  
chartreuse1  
lightgreen  
lightgreena  
palegreen1  
aquamarine1a  
darkslategray1  
red3  
deeppink4b  
mediumvioletred  
magenta3  
darkvioleta  
purpleb  
darkorange3  
indianred  
hotpink3  
mediumorchid3  
mediumorchid  
mediumpurple2  
darkgoldenrod  
lightsalmon3  
rosybrown  
grey63

mediumpurple2a  
mediumpurple1  
gold3  
darkkhaki  
navajowhite3  
grey69  
lightsteelblue3  
lightsteelblue  
yellow3  
darkolivegreen3b  
darkseagreen3a  
darkseagreen2  
lightcyan3  
lightskyblue1  
greenyellow  
darkolivegreen2  
palegreen1a  
darkseagreen2a  
darkseagreen1  
paleturquoise1  
red3a  
deeppink3  
deeppink3a  
magenta3a  
magenta3b  
magenta2  
darkorange3a  
indianred  
hotpink3a  
hotpink2  
orchid  
mediumorchid1  
orange3  
lightsalmon3a  
lightpink3  
pink3  
plum3  
violet  
gold3a  
lightgoldenrod3  
tan  
mistyrose3  
thistle3  
plum2  
yellow3a  
khaki3  
lightgoldenrod2  
lightyellow3

grey84  
lightsteelblue1  
yellow2  
darkolivegreen1  
darkolivegreen1a  
darkseagreen1a  
honeydew2  
lightcyan1  
red1  
deeppink2  
deeppink1  
deeppink1a  
magenta2a  
magenta1  
orangered1  
indianred1  
indianred1a  
hotpink  
hotpinka  
mediumorchid1a  
darkorange  
salmon1  
lightcoral  
palevioletred1  
orchid2  
orchid1  
orange1  
sandybrown  
lightsalmon1  
lightpink1  
pink1  
plum1  
gold1  
lightgoldenrod2a  
lightgoldenrod2b  
navajowhite1  
mistyrose1  
thistle1  
yellow1  
lightgoldenrod1  
khaki1  
wheat1  
cornsilk1  
grey100  
grey3  
grey7  
grey11  
grey15

grey19  
grey23  
grey27  
grey30  
grey35  
grey39  
grey42  
grey46  
grey50  
grey54  
grey58  
grey62  
grey66  
grey70  
grey74  
grey78  
grey82  
grey85  
grey89  
grey93

Found

in path(s):

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/utils/colors.txt

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\*/

Found in path(s):

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/utils/PumpReader.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/utils/NonBlockingPumpReader.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/utils/WriterOutputStream.java

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#
class = org.jline.terminal.impl.exec.ExecTerminalProvider
```

Found in path(s):

```
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/META-INF/services/org/jline/terminal/provider/exec
```

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#
```

```
auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_sms0, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
```

hue\_lightness\_saturation, hls, hl  
insert\_null\_glitch, in, in  
lpi\_changes\_res, lpix, YG  
memory\_above, da, da  
memory\_below, db, db  
move\_insert\_mode, mir, mi  
move\_standout\_mode, msgr, ms  
needs\_xon\_xoff, nxon, nx  
no\_esc\_ctlc, xsb, xb  
no\_pad\_char, npc,  
NP  
non\_dest\_scroll\_region, ndscr, ND  
non\_rev\_rmcup, nrrmc, NR  
over\_strike, os, os  
prtr\_silent, mc5i, 5i  
row\_addr\_glitch, xvpa, YD  
semi\_auto\_right\_margin, sam, YE  
status\_line\_esc\_ok, eslok, es  
tilde\_glitch, hz, hz  
transparent\_underline, ul, ul  
xon\_xoff, xon, xo  
columns, cols, co  
init\_tabs, it, it  
label\_height, lh, lh  
label\_width, lw, lw  
lines, lines, li  
lines\_of\_memory, lm, lm  
magic\_cookie\_glitch, xmc, sg  
max\_attributes, ma, ma  
max\_colors, colors, Co  
max\_pairs, pairs, pa  
maximum\_windows, wnum, MW  
no\_color\_video, ncv, NC  
num\_labels, nlab, Nl  
padding\_baud\_rate, pb, pb  
virtual\_terminal, vt, vt  
width\_status\_line, wsl, ws  
bit\_image\_entwining, bitwin, Yo  
bit\_image\_type, bitype, Yp  
buffer\_capacity, bufsz, Ya  
buttons, btns, BT  
dot\_horz\_spacing, spinh, Yc  
dot\_vert\_spacing, spinv, Yb  
max\_micro\_address, maddr, Yd  
max\_micro\_jump, mjump, Ye  
micro\_col\_size, mcs, Yf  
micro\_line\_size, mls, Yg  
number\_of\_pins, npins, Yh

output\_res\_char, orc, Yi  
output\_res\_horz\_inch, orhi, Yk  
output\_res\_line, orl, Yj  
output\_res\_vert\_inch,  
orvi, Yl  
print\_rate, cps, Ym  
wide\_char\_size, widcs, Yn  
acs\_chars, acsc, ac  
back\_tab, cbt, bt  
bell, bel, bl  
carriage\_return, cr, cr  
change\_char\_pitch, cpi, ZA  
change\_line\_pitch, lpi, ZB  
change\_res\_horz, chr, ZC  
change\_res\_vert, cvr, ZD  
change\_scroll\_region, csr, cs  
char\_padding, rmp, rP  
clear\_all\_tabs, tbc, ct  
clear\_margins, mgc, MC  
clear\_screen, clear, cl  
clr\_bol, e1l, cb  
clr\_eol, el, ce  
clr\_eos, ed, cd  
column\_address, hpa, ch  
command\_character, cmdch, CC  
create\_window, cwin, CW  
cursor\_address, cup, cm  
cursor\_down, cud1, do  
cursor\_home, home, ho  
cursor\_invisible, civis, vi  
cursor\_left, cub1, le  
cursor\_mem\_address, mrcup, CM  
cursor\_normal, cnorm, ve  
cursor\_right, cuf1, nd  
cursor\_to\_ll, ll, ll  
cursor\_up, cuu1, up  
cursor\_visible, cvvis, vs  
define\_char, defc, ZE  
delete\_character, dch1, dc  
delete\_line, dl1, dl  
dial\_phone, dial, DI  
dis\_status\_line, dsl, ds  
display\_clock, dclk, DK  
down\_half\_line, hd, hd  
ena\_acs, enacs, eA  
enter\_alt\_charset\_mode, smacs, as  
enter\_am\_mode, smam,

## SA

enter\_blink\_mode, blink, mb  
enter\_bold\_mode, bold, md  
enter\_ca\_mode, smcup, ti  
enter\_delete\_mode, smdc, dm  
enter\_dim\_mode, dim, mh  
enter\_doublewide\_mode, swidm, ZF  
enter\_draft\_quality, sdrfq, ZG  
enter\_insert\_mode, smir, im  
enter\_italics\_mode, sitm, ZH  
enter\_leftward\_mode, slm, ZI  
enter\_micro\_mode, smicm, ZJ  
enter\_near\_letter\_quality, snlq, ZK  
enter\_normal\_quality, snrmq, ZL  
enter\_protected\_mode, prot, mp  
enter\_reverse\_mode, rev, mr  
enter\_secure\_mode, invis, mk  
enter\_shadow\_mode, sshm, ZM  
enter\_standout\_mode, smso, so  
enter\_subscript\_mode, ssubm, ZN  
enter\_superscript\_mode, ssupm, ZO  
enter\_underline\_mode, smul, us  
enter\_upward\_mode, sum, ZP  
enter\_xon\_mode, smxon, SX  
erase\_chars, ech, ec  
exit\_alt\_charset\_mode, rmacs, ae  
exit\_am\_mode, rmam, RA  
exit\_attribute\_mode, sgr0, me  
exit\_ca\_mode, rmcup, te  
exit\_delete\_mode, rmdc, ed  
exit\_doublewide\_mode, rwidm, ZQ  
exit\_insert\_mode, rmir, ei  
exit\_italics\_mode, ritm, ZR  
exit\_leftward\_mode, rlm, ZS  
exit\_micro\_mode, rmicm, ZT  
exit\_shadow\_mode, rshm,  
ZU  
exit\_standout\_mode, rmso, se  
exit\_subscript\_mode, rsubm, ZV  
exit\_superscript\_mode, rsupm, ZW  
exit\_underline\_mode, rmul, ue  
exit\_upward\_mode, rum, ZX  
exit\_xon\_mode, rmxon, RX  
fixed\_pause, pause, PA  
flash\_hook, hook, fh  
flash\_screen, flash, vb  
form\_feed, ff, ff  
from\_status\_line, fsl, fs

goto\_window, wingo, WG  
hangup, hup, HU  
init\_1string, is1, i1  
init\_2string, is2, is  
init\_3string, is3, i3  
init\_file, if, if  
init\_prog, iprog, iP  
initialize\_color, inite, Ic  
initialize\_pair, initp, Ip  
insert\_character, ich1, ic  
insert\_line, il1, al  
insert\_padding, ip, ip  
key\_a1, ka1, K1  
key\_a3, ka3, K3  
key\_b2, kb2, K2  
key\_backspace, kbs, kb  
key\_beg, kbeg, @1  
key\_btab, kcbt, kB  
key\_c1, kc1, K4  
key\_c3, kc3, K5  
key\_cancel, kcan, @2  
key\_catab, ktbc, ka  
key\_clear, kclr, kC  
key\_close, kclo, @3  
key\_command, kcmd, @4  
key\_copy, kcpy, @5  
key\_create, kcrt, @6  
key\_ctab, kctab, kt  
key\_dc, kdch1, kD  
key\_dl, kdl1, kL  
key\_down, kcud1, kd  
key\_eic, krmir, kM  
key\_end, kend, @7  
key\_enter, kent, @8  
key\_eol, kel, kE  
key\_eos,  
ked, kS  
key\_exit, kext, @9  
key\_f0, kf0, k0  
key\_f1, kf1, k1  
key\_f10, kf10, k;  
key\_f11, kf11, F1  
key\_f12, kf12, F2  
key\_f13, kf13, F3  
key\_f14, kf14, F4  
key\_f15, kf15, F5  
key\_f16, kf16, F6  
key\_f17, kf17, F7

key\_f18, kf18, F8  
key\_f19, kf19, F9  
key\_f2, kf2, k2  
key\_f20, kf20, FA  
key\_f21, kf21, FB  
key\_f22, kf22, FC  
key\_f23, kf23, FD  
key\_f24, kf24, FE  
key\_f25, kf25, FF  
key\_f26, kf26, FG  
key\_f27, kf27, FH  
key\_f28, kf28, FI  
key\_f29, kf29, FJ  
key\_f3, kf3, k3  
key\_f30, kf30, FK  
key\_f31, kf31, FL  
key\_f32, kf32, FM  
key\_f33, kf33, FN  
key\_f34, kf34, FO  
key\_f35, kf35, FP  
key\_f36, kf36, FQ  
key\_f37, kf37, FR  
key\_f38, kf38, FS  
key\_f39, kf39, FT  
key\_f4, kf4, k4  
key\_f40, kf40, FU  
key\_f41, kf41, FV  
key\_f42, kf42, FW  
key\_f43, kf43, FX  
key\_f44, kf44, FY  
key\_f45, kf45, FZ  
key\_f46, kf46, Fa  
key\_f47, kf47, Fb  
key\_f48, kf48, Fc  
key\_f49, kf49, Fd  
key\_f5, kf5, k5  
key\_f50, kf50, Fe  
key\_f51, kf51, Ff  
key\_f52, kf52, Fg  
key\_f53, kf53, Fh  
key\_f54, kf54, Fi  
key\_f55, kf55, Fj  
key\_f56, kf56, Fk  
key\_f57, kf57, Fl  
key\_f58, kf58,  
Fm  
key\_f59, kf59, Fn  
key\_f6, kf6, k6

key\_f60, kf60, Fo  
key\_f61, kf61, Fp  
key\_f62, kf62, Fq  
key\_f63, kf63, Fr  
key\_f7, kf7, k7  
key\_f8, kf8, k8  
key\_f9, kf9, k9  
key\_find, kfnd, @0  
key\_help, khlp, %1  
key\_home, khome, kh  
key\_ic, kich1, kI  
key\_il, kill1, kA  
key\_left, kcub1, kl  
key\_ll, kll, kH  
key\_mark, kmrk, %2  
key\_message, kmsg, %3  
key\_move, kmov, %4  
key\_next, knxt, %5  
key\_npage, knp, kN  
key\_open, kopn, %6  
key\_options, kopt, %7  
key\_ppage, kpp, kP  
key\_previous, kprv, %8  
key\_print, kpri, %9  
key\_redo, krdo, %0  
key\_reference, kref, &1  
key\_refresh, krfr, &2  
key\_replace, krpl, &3  
key\_restart, krst, &4  
key\_resume, kres, &5  
key\_right, kcuf1, kr  
key\_save, ksav, &6  
key\_sbeg, kBEG, &9  
key\_scancel, kCAN, &0  
key\_scommand, kCMD, \*1  
key\_scopy, kCPY, \*2  
key\_screate, kCRT, \*3  
key\_sdc, kDC, \*4  
key\_sdl, kDL, \*5  
key\_select, kslt, \*6  
key\_send, kEND, \*7  
key\_seol, kEOL, \*8  
key\_sexit, kEXT, \*9  
key\_sf, kind, kF  
key\_sfind, kFND, \*0  
key\_shelp, kHLP, #1  
key\_shome, kHOM, #2  
key\_sic, kIC, #3

key\_sleft, kLFT, #4  
key\_smessage,  
kMSG, %a  
key\_smove, kMOV, %b  
key\_snext, kNXT, %c  
key\_soptions, kOPT, %d  
key\_sprevious, kPRV, %e  
key\_sprint, kPRT, %f  
key\_sr, kri, kR  
key\_sredo, kRDO, %g  
key\_sreplace, kRPL, %h  
key\_sright, kRIT, %i  
key\_sresume, kRES, %j  
key\_ssave, kSAV, !1  
key\_ssuspend, kSPD, !2  
key\_stab, khts, kT  
key\_sundo, kUND, !3  
key\_suspend, kspd, &7  
key\_undo, kund, &8  
key\_up, kcuu1, ku  
keypad\_local, rmkx, ke  
keypad\_xmit, smkx, ks  
lab\_f0, lf0, l0  
lab\_f1, lf1, l1  
lab\_f10, lf10, la  
lab\_f2, lf2, l2  
lab\_f3, lf3, l3  
lab\_f4, lf4, l4  
lab\_f5, lf5, l5  
lab\_f6, lf6, l6  
lab\_f7, lf7, l7  
lab\_f8, lf8, l8  
lab\_f9, lf9, l9  
label\_format, fln, Lf  
label\_off, rmln, LF  
label\_on, smln, LO  
meta\_off, rmm, mo  
meta\_on, smm, mm  
micro\_column\_address, mhpa, ZY  
micro\_down, mcud1, ZZ  
micro\_left, mcub1, Za  
micro\_right, mcuf1, Zb  
micro\_row\_address, mvpa, Zc  
micro\_up, mcuu1, Zd  
newline, nel, nw  
order\_of\_pins, porder, Ze  
orig\_colors, oc, oc  
orig\_pair, op, op



pad\_char, pad, pc  
parm\_dch, dch, DC  
parm\_delete\_line, dl, DL  
parm\_down\_cursor, cud, DO  
parm\_down\_micro,  
  mcud, Zf  
parm\_ich, ich, IC  
parm\_index, indn, SF  
parm\_insert\_line, il, AL  
parm\_left\_cursor, cub, LE  
parm\_left\_micro, mcub, Zg  
parm\_right\_cursor, cuf, RI  
parm\_right\_micro, mcuf, Zh  
parm\_rindex, rin, SR  
parm\_up\_cursor, cuu, UP  
parm\_up\_micro, mcuu, Zi  
pkey\_key, pkey, pk  
pkey\_local, pfloc, pl  
pkey\_xmit, pfx, px  
plab\_norm, pln, pn  
print\_screen, mc0, ps  
prtr\_non, mc5p, pO  
prtr\_off, mc4, pf  
prtr\_on, mc5, po  
pulse, pulse, PU  
quick\_dial, qdial, QD  
remove\_clock, rmclk, RC  
repeat\_char, rep, rp  
req\_for\_input, rfi, RF  
reset\_1string, rs1, r1  
reset\_2string, rs2, r2  
reset\_3string, rs3, r3  
reset\_file, rf, rf  
restore\_cursor, rc, rc  
row\_address, vpa, cv  
save\_cursor, sc, sc  
scroll\_forward, ind, sf  
scroll\_reverse, ri, sr  
select\_char\_set, scs, Zj  
set\_attributes, sgr, sa  
set\_background, setb, Sb  
set\_bottom\_margin, smgb, Zk  
set\_bottom\_margin\_parm, smgbp, Zl  
set\_clock, sclk, SC  
set\_color\_pair, scp, sp  
set\_foreground, setf, Sf  
set\_left\_margin, smgl, ML  
set\_left\_margin\_parm, smglp, Zm

set\_right\_margin,  
smgr, MR  
set\_right\_margin\_parm, smgrp, Zn  
set\_tab, hts, st  
set\_top\_margin, smgt, Zo  
set\_top\_margin\_parm, smgtp, Zp  
set\_window, wind, wi  
start\_bit\_image, sbim, Zq  
start\_char\_set\_def, scsd, Zr  
stop\_bit\_image, rbim, Zs  
stop\_char\_set\_def, rcsd, Zt  
subscript\_characters, subcs, Zu  
superscript\_characters, supcs, Zv  
tab, ht, ta  
these\_cause\_cr, docr, Zw  
to\_status\_line, tsl, ts  
tone, tone, TO  
underline\_char, uc, uc  
up\_half\_line, hu, hu  
user0, u0, u0  
user1, u1, u1  
user2, u2, u2  
user3, u3, u3  
user4, u4, u4  
user5, u5, u5  
user6, u6, u6  
user7, u7, u7  
user8, u8, u8  
user9, u9, u9  
wait\_tone, wait, WA  
xoff\_character, xoffc, XF  
xon\_character, xonc, XN  
zero\_motion, zerom, Zx  
alt\_scancode\_esc, scesa, S8  
bit\_image\_carriage\_return, bicr, Yv  
bit\_image\_newline, binel, Zz  
bit\_image\_repeat, birep, Xy  
char\_set\_names, csnm, Zy  
code\_set\_init, csin, ci  
color\_names, colornm, Yw  
define\_bit\_image\_region, defbi, Yx  
device\_type, devt, dv  
display\_pc\_char, dispcc, S1  
end\_bit\_image\_region, endbi, Yy  
enter\_pc\_charset\_mode,  
smpch, S2  
enter\_scanmode\_mode, smsc, S4  
exit\_pc\_charset\_mode, rmpch, S3

exit\_scancode\_mode, rMSC, S5  
get\_mouse, getm, Gm  
key\_mouse, kmous, Km  
mouse\_info, minfo, Mi  
pc\_term\_options, pctrm, S6  
pkey\_plab, pfxl, xl  
req\_mouse\_pos, reqmp, RQ  
scancode\_escape, scesc, S7  
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set1\_des\_seq, s1ds, s1  
set2\_des\_seq, s2ds, s2  
set3\_des\_seq, s3ds, s3  
set\_a\_background, setab, AB  
set\_a\_foreground, setaf, AF  
set\_color\_band, setcolor, Yz  
set\_lr\_margin, smglr, ML  
set\_page\_length, slines, YZ  
set\_tb\_margin, smgtb, MT  
enter\_horizontal\_hl\_mode, ehhlM, Xh  
enter\_left\_hl\_mode, elhlM, Xl  
enter\_low\_hl\_mode, elohlm, Xo  
enter\_right\_hl\_mode, erhlM, Xr  
enter\_top\_hl\_mode, ethlm, Xt  
enter\_vertical\_hl\_mode, evhlM, Xv  
set\_a\_attributes, sgr1, sA  
set\_pglen\_inch, slength, sL

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\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/utils/NonBlocking.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java

\*

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\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/NonBlockingReaderImpl.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/NonBlockingInputStream.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/Timeout.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/AttributedStringBuilder.java

\*

/\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/Size.java

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/\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/Size.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/Size.java

jar/org/jline/Utils/NonBlockingReader.java

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jar/org/jline/Utils/Colors.java

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\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/Log.java

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jar/org/jline/Utils/Display.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-

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jar/org/jline/terminal/impl/AbstractPosixTerminal.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-

jar/org/jline/terminal/Cursor.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-

jar/org/jline/terminal/impl/ExecPty.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-

jar/org/jline/Utils/ClosedException.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/package-

info.java

\*

/opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/ShutdownHooks.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/AttributedString.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/CursorSupport.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/OSUtils.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/package-info.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/ExecHelper.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/MouseSupport.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/Attributes.java  
\*

/opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/InputStreamReader.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/MouseEvent.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/spi/Pty.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/WCWidth.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/DiffHelper.java

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\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/TerminalBuilder.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/AttributedCharSequence.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-

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\* /opt/cola/permits/1617269052\_1681870941.6195126/0/jline-builtins-3-22-0-sources-  
jar/org/jline/builtins/SyntaxHighlighter.java

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jar/org/jline/builtins/Source.java

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\* /opt/cola/permits/1617269052\_1681870941.6195126/0/jline-builtins-3-22-0-sources-jar/org/jline/builtins/ConfigurationPath.java

\* /opt/cola/permits/1617269052\_1681870941.6195126/0/jline-builtins-3-22-0-sources-jar/org/jline/builtins/Tmux.java

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\* /opt/cola/permits/1617269052\_1681870941.6195126/0/jline-builtins-3-22-0-sources-jar/org/jline/builtins/Completers.java

\* /opt/cola/permits/1617269052\_1681870941.6195126/0/jline-builtins-3-22-0-sources-jar/org/jline/builtins/TTop.java

\* /opt/cola/permits/1617269052\_1681870941.6195126/0/jline-builtins-3-22-0-sources-jar/org/jline/builtins/Styles.java

\* /opt/cola/permits/1617269052\_1681870941.6195126/0/jline-builtins-3-22-0-sources-jar/org/jline/builtins/ConsoleOptionGetter.java

## 1.835 jline-terminal-jansi 3.22.0

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Found in path(s):

\* /opt/cola/permits/1617269406\_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/win/WindowsAnsiWriter.java  
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\* /opt/cola/permits/1617269406\_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/JansiNativePty.java  
\* /opt/cola/permits/1617269406\_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/JansiTerminalProvider.java  
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#  
class = org.jline.terminal.impl.jansi.JansiTerminalProvider

Found in path(s):

\* /opt/cola/permits/1617269406\_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/META-

INF/services/org/jline/terminal/provider/jansi

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\* /opt/cola/permits/1617269406\_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java

\* /opt/cola/permits/1617269406\_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java

\* /opt/cola/permits/1617269406\_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java

\* /opt/cola/permits/1617269406\_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java

# 1.836 customize-kyaml 0.14.1

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# 1.837 kustomize-api 0.13.2

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\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

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- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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## Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.  
\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api  
\* javax.annotation:javax.annotation-api  
\* javax.transaction:javax.transaction-api  
\* javax.websocket:javax.websocket-api

-----  
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN



module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----  
OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

-----  
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----  
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.840 jetty-util-ajax 9.4.51.v20230217

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- \* org.eclipse.jetty.orbit:javafx.security.auth.message

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- \* org.eclipse.jetty.orbit:javafx.mail.glassfish

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#### Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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#### OW2

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
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org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
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org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

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org.apache.tomcat:tomcat-jasper-el  
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org.apache.tomcat:tomcat-util-scan  
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\* <https://github.com/eclipse-ee4j/jersey>

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  - \* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/ContextBase.java
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  - /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/subst/NodeToStringTransformer.java
  - \* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/LifeCycleManager.java
  - \* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/server/ConcurrentServerRunner.java
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/color/ForegroundCompositeConverterBase.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/joran/spi/DefaultClass.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/net/ssl/SSLConfigurable.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/sift/AbstractDiscriminator.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/joran/event/SaxEvent.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/joran/action/NestedBasicPropertyIA.java  
\*  
/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/net/server/RemoteReceiverClient.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/FileAppender.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/pattern/PatternLayoutBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/pattern/parser/Compiler.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/rolling/SizeBasedTriggeringPolicy.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/status/StatusBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/boolex/EventEvaluator.java  
\*  
/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/net/ssl/ConfigurableSSLServerSocketFactory.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/pattern/util/AlmostAsIsEscapeUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/rolling/helper/Compressor.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/rolling/helper/RenameUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/joran/spi/Interpreter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/net/ssl/SSLComponent.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/joran/event/SaxEventRecorder.java  
\*  
/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/joran/event/stax/StaxEventRecorder.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/status/StatusListenerAsList.java

```
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/joran/action/ParamAction.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/util/Loader.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/encoder/Encoder.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/net/ssl/ConfigurableSSLConnectionFactory.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/joran/action/ConversionRuleAction.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/util/CachingDateFormat.java
*
/opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/util/CloseUtil.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/util/EnvUtil.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/util/DelayStrategy.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/BasicStatusManager.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/joran/action/IADDataForBasicProperty.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/net/ssl/SSLConfiguration.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/pattern/DynamicConverter.java
*
/opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicy.java
```

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\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/txn/SetMaxChildrenTxn.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/RemoveWatchesRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/SetMaxChildrenRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetAllChildrenNumberResponse.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/txn/MultiTxn.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/txn/CreateContainerTxn.java  
\*  
/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/SetDataResponse.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/AuthPacket.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/data/Stat.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetACLResponse.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/data/ACL.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/SyncResponse.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/SetWatches2.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumPacket.java  
\*  
/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumAuthPacket.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/txn/SetDataTxn.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/CheckWatchesRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/txn/CheckVersionTxn.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/txn/SetACLTxn.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/SetSASLRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/CreateResponse.java  
\*

```
/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/SetWatches.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/ErrorTxn.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/SetACLRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/CreateRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/GetEphemeralsResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/ConnectResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/CreateTTLTxn.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/ReplyHeader.java
*
/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/GetChildrenResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/RequestHeader.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/DeleteTxn.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/SetSASLResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/GetMaxChildrenRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/CreateTTLRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/SyncRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/server/persistence/FileHeader.java
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```

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<!--
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-->

Found in path(s):

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/META-INF/maven/org.apache.zookeeper/zookeeper-jute/pom.xml  
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-->

Found in path(s):

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/package.html  
\*  
/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/package.html  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/package.html  
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Found in path(s):

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JBuffer.java

\*

/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JMap.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/OutputArchive.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JByte.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JCompType.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JInt.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JLong.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JString.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/Record.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/ToStringOutputArchive.java

\*

/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JRecord.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/RecordWriter.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JDouble.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JVector.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/RecordReader.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/BinaryOutputArchive.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/BinaryInputArchive.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/CSharpGenerator.java

```
*
/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JType.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/Utils.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/CGenerator.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/CppGenerator.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JBoolean.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JField.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JavaGenerator.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JFloat.java
*
/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/Index.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JFile.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/InputArchive.java
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```
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/generated/TokenMgrError.java
*
```

/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/ParseException.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/rcc.jj  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/SimpleCharStream.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/Token.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/RccConstants.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/RccTokenManager.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/Rcc.java

# 1.855 kubernetes-model-node 6.5.1

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\* /opt/cola/permits/1634239322\_1681207432.5711164/0/kubernetes-model-node-6-5-1-sources-jar/manifest.vm

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Found in path(s):

\* /opt/cola/permits/1634239322\_1681207432.5711164/0/kubernetes-model-node-6-5-1-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-node/pom.xml

## 1.856 kubernetes-model-resource 6.5.1

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# 1.857 kubernetes-httpclient-okhttp 6.5.1

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Found in path(s):

\* /opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpClientFactory.java

\* /opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpClientBuilderImpl.java

\*

/opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpWebSocketImpl.java

\* /opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpClientImpl.java



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Found in path(s):

\* /opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/META-INF/maven/io.fabric8/kubernetes-httpclient-okhttp/pom.xml

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#

io.fabric8.kubernetes.client.okhttp.OkHttpClientFactory

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\* /opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/META-INF/services/io.fabric8.kubernetes.client.http.HttpClient\$Factory

# 1.858 kubernetes-model-flowcontrol 6.5.1

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Manifest-Version: 1.0

Build-Jdk-Spec: 1.8

Bundle-Description: Java client for Kubernetes and OpenShift

Bundle-DocURL: <http://redhat.com>

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Fabric8 :: Kubernetes Model :: FlowControl

Bundle-SymbolicName: io.fabric8.kubernetes-model-flowcontrol

Bundle-Vendor: Red Hat

Bundle-Version: 6.5.1

Created-By: Apache Maven Bundle Plugin 5.1.8

Export-Package: io.fabric8.kubernetes.api.model.flowcontrol.v1alpha1;u

ses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind

,com.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.

builder,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.a

nnotation";version="6.5.1",io.fabric8.kubernetes.api.model.flowcontro

l.v1beta1;uses:="com.fasterxml.jackson.annotation,com.fasterxml.jacks

on.databind,com.fasterxml.jackson.databind.annotation,io.fabric8.kube

rnetes.api.builder,io.fabric8.kubernetes.api.model,io.fabric8.kuberne

tes.model.annotation";version="6.5.1",io.fabric8.kubernetes.api.model

.flowcontrol.v1beta2;uses:="com.fasterxml.jackson.annotation,com.fast

erxml.jackson.databind,com.fasterxml.jackson.databind.annotation,io.f

abric8.kubernetes.api.builder,io.fabric8.kubernetes.api.model,io.fabr

ic8.kubernetes.model.annotation";version="6.5.1",io.fabric8.kubernete

s.api.model.flowcontrol.v1beta3;uses:="com.fasterxml.jackson.annotati

on,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.anno

tation,io.fabric8.kubernetes.api.builder,io.fabric8.kubernetes.api.mo

del,io.fabric8.kubernetes.model.annotation";version="6.5.1"

Implementation-URL: <http://fabric8.io/kubernetes-model-generator/kubernetes-model-flowcontrol/>

Import-Package: com.fasterxml.jackson.annotation;version="[2.14,3)",co

m.fasterxml.jackson.databind;version="[2.14,3)",com.fasterxml.jackson

.databind.annotation;version="[2.14,3)",io.fabric8.kubernetes.api.bui

lder;version="[6.5,7)",io.fabric8.kubernetes.api.model,io.fabric8.kub

ernetes.model.annotation;version="[6.5,7)"

Include-Resource: META-INF/services/io.fabric8.kubernetes.api.model.Ku

bernetesResource=target/classes/META-INF/services/io.fabric8.kubern

etes.api.model.KubernetesResource,schema/kube-schema.json=src/main/reso

urces/schema/kube-schema.json,schema/validation-schema.json=src/main/

resources/schema/validation-schema.json,manifest.vm=src/main/resource

s/manifest.vm,/META-INF/jandex.idx=target/classes/META-INF/jandex.idx

Private-Package: schema

Provide-Capability: osgi.serviceloader;osgi.serviceloader="io.fabric8.  
kubernetes.api.model.KubernetesResource"  
Require-Capability: osgi.extender;filter:="(osgi.extender=osgi.service  
loader.registrar)",osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"  
Scm-Connection: scm:git:git@github.com:fabric8io/kubernetes-client.git  
/kubernetes-model-generator/kubernetes-model-flowcontrol  
Scm-Revision: \${buildNumber}  
Scm-Url: http://github.com/fabric8io/kubernetes-client/kubernetes-mode  
l-generator/kubernetes-model-flowcontrol/  
Specification-Title: Fabric8 :: Kubernetes Model :: FlowControl  
Specification-Vendor: Red Hat  
Specification-Version: 6.5  
Tool: Bnd-6.3.1.202206071316

Found in path(s):

\* /opt/cola/permits/1634239271\_1681207449.919786/0/kubernetes-model-flowcontrol-6-5-1-jar/META-  
INF/MANIFEST.MF

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\* /opt/cola/permits/1634239271\_1681207449.919786/0/kubernetes-model-flowcontrol-6-5-1-jar/manifest.vm

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Found in path(s):

\* /opt/cola/permits/1634239271\_1681207449.919786/0/kubernetes-model-flowcontrol-6-5-1-jar/META-INF/maven/io.fabric8/kubernetes-model-flowcontrol/pom.xml

## 1.859 zookeeper 3.6.4

### 1.859.1 Available under license :

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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/Request.java

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jar/org/apache/zookeeper/cli/GetAllChildrenNumberCommand.java  
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jar/org/apache/zookeeper/common/KeyStoreFileType.java  
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/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
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jar/org/apache/zookeeper/server/metric/AvgMinMaxPercentileCounterSet.java  
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jar/org/apache/zookeeper/server/quorum/LocalPeerMXBean.java  
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jar/org/apache/zookeeper/server/quorum/LearnerSyncRequest.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/metrics/impl/DefaultMetricsProvider.java  
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jar/org/apache/zookeeper/server/quorum/auth/SaslQuorumAuthServer.java  
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* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
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jar/org/apache/zookeeper/metrics/impl/NullMetricsProvider.java  
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jar/org/apache/zookeeper/server/EphemeralTypeEmulate353.java

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-->

Found in path(s):

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/package.html

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Found in path(s):

```
*/opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/MultipleAddresses.java
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Found in path(s):

```
*/opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/META-
INF/maven/org.apache.zookeeper/zookeeper/pom.xml
```

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```

Found in path(s):

```
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/version/Info.java
```

```
*
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```
/opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/version/VersionInfoMain.java
```

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```
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/common/PathTrie.java
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```
/opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/common/PathUtils.java
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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/watch/WatcherModeManager.java

\*

/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/util/CircularBuffer.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/util/MessageTracker.java

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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/common/BCFKSFileLoader.java

\*

```
/opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/util/CircularBlockingQueue.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/watch/WatcherMode.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/TxnLogEntry.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/watch/PathParentIterator.java
```

# 1.860 kubernetes-client-api 6.5.1

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```
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/http/StandardMediaTypes.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/ReplaceDeletable.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/ServerSideApplicable.java
*
/opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/V1PolicyAPIGroupDSL.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/extended/leaderelection/resourceLock/LeaderElectionRecord.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/TtyExecErrorChannelable.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/utils/IOHelpers.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
```

jar/io/fabric8/kubernetes/client/DefaultKubernetesClient.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/ListVisitFromServerWritable.java  
\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/V1beta1NetworkAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/ListVisitFromServerGetDeleteRecreateWaitApplicable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/TimeoutImageEditReplacePatchable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/ApiextensionsAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/MetricOperation.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/Watchable.java  
\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/AnyNamespaceOperation.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/EphemeralContainersResource.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/FunctionCallable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/V1StorageAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/Filterable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/http/SendAsyncUtils.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/V1EventingAPIGroupDSL.java  
\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/ScalableResource.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/FlowControlAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/utils/CachedSingleThreadScheduler.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/http/ByteArrayBodyHandler.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/V2AutoscalingAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/base/CustomResourceDefinitionContext.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/LocalPortForward.java  
\*

/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/AuthenticationAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Execable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/V1beta1BatchAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/FromServerGettable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/Watcher.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/extended/run/RunOperations.java  
\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/readiness/Readiness.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/BytesLimitTerminateTimeTailPrettyLoggable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/GracePeriodConfigurable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/Config.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/EventingAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/V1beta1SchedulingAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/AppsAPIGroupDSL.java  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/WatchAndWaitable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Informable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/Utils/BackwardsCompatibilityInterceptor.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/Version.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/CertificateSigningRequestResource.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/AdmissionRegistrationAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/Utils/InputStreamPumper.java  
\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/V1beta1CertificatesAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/internal/KubeConfigUtils.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-

jar/io/fabric8/kubernetes/client/V1AdmissionRegistrationAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/extended/leaderelection/LeaderElector.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/utils/PodStatusUtil.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/V1ApiextensionAPIGroupDSL.java  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/ItemReplacable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/V1BatchAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/StorageAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/NamespacedResource.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/http/BasicBuilder.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/informers/cache/ItemStore.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/V1beta3FlowControlAPIGroupDSL.java  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/informers/cache/Listener.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/extended/leaderelection/resourceLock/LeaseLock.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/PrettyLoggable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/extended/leaderelection/LeaderElectorBuilder.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/extension/ExtensibleResource.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/CustomResourceList.java  
\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/extended/leaderelection/LeaderCallbacks.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/V2beta2AutoscalingAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/extension/ExtensionRootClientAdapter.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/ResourceNotFoundException.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/V2beta1AutoscalingAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/V1beta1PolicyAPIGroupDSL.java

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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/AnyNamespactable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/TimestampBytesLimitTerminateTimeTailPrettyLoggable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ImageEditReplacePatchable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/PortForward.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/Utils/Utils.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/NamespacedKubernetesClientAdapter.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ParameterMixedOperation.java  
\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/V1DiscoveryAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Timeoutable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/KubernetesClient.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/CertificatesAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/V1NetworkAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ExecWatch.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/EditReplacePatchable.java  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/OperationInfo.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/V1SchedulingAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/AbstractBasicBuilder.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Triggerable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Parameterizable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/informers/cache/ReducedStateItemStore.java  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ContainerResource.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/internal/PKCS1Util.java

\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ImageUpdateable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/internal/SSLUtils.java  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/informers/cache/Cache.java  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/informers/SharedIndexInformer.java  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/BatchAPIGroupDSL.java  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/extended/leaderelection/resourceLock/Lock.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/WebSocketResponse.java  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/NamespacedKubernetesClient.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/StandardHttpClientBuilder.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/informers/ResourceEventHandler.java  
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\*

/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ExecListenable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/WatcherException.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/CustomResource.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Listable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/NamespacedVisitFromServerGetDeleteRecreateWaitApplicable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/PolicyAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/AutoscalingAPIGroupDSL.java  
\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/V1beta1AuthorizationAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/StandardWebSocketBuilder.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/extension/ClientAdapter.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/V1beta1ApiextensionAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/informers/SharedInformerEventListener.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/ApiVisitor.java  
\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/extended/run/RunConfig.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/informers/cache/Store.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/CreateOrReplaceable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/KubernetesClientTimeoutException.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/PodMetricOperation.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/utils/URLUtils.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/base/ResourceDefinitionContext.java  
\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/informers/cache/BasicItemStore.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/NonDeletingOperation.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-

```
jar/io/fabric8/kubernetes/client/dsl/NamespacedInOutCreateable.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/http/HttpHeaders.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/V1AutoscalingAPIGroupDSL.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/informers/SharedInformerFactory.java
*
/opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/Deletable.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/AuthorizationAPIGroupDSL.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/ExecListener.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/Nameable.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/TtyExecErrorable.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/WritableOperation.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/extended/leaderelection/resourceLock/ConfigMapLock.java
*
/opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/http/AsyncBody.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/V1CertificatesAPIGroupDSL.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/Loggable.java
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Found in path(s):

\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/META-INF/maven/io.fabric8/kubernetes-client-api/pom.xml

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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/lib/FilenameUtils.java

\*

\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/lib/FileSystem.java

# 1.861 kubernetes-model-common 6.5.1

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Found in path(s):

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/Version.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/Plural.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/Kind.java

\*

/opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/SpecReplicas.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/ShortNames.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/jackson/JsonUnwrappedDeserializer.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/jackson/SettableBeanPropertyDelegate.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/jackson/BeanPropertyWriterDelegate.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/jackson/UnmatchedFieldTypeModule.java

\*

```
/opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/annotation/Singular.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/annotation/PrinterColumn.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/annotation/LabelSelector.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/annotation/Group.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/util/Helper.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/Scope.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/annotation/StatusReplicas.java
*
/opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/annotation/Generated.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/jackson/UnwrappedTypeResolverBuilder.java
```

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

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Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider

Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
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Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
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Bussjaeger, Andreas  
Calvin, Gary  
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Cheloha, Scott  
ek, Vtzslav  
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Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
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Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal

Pasteleurs, Frederic  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Spradling, Michael  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris



Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez,  
Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen

Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Puente, Enol  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarer, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
r, Balzs  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

# 1.863 packaging 23.1

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# 1.864 unsafe-assume-no-moving-gc 0.0.0-20230221090011-e4bae7ad2296

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# 1.865 containerd 1.7.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Changes:

- \* Renamed files from `civil*` to `localtime*`.
- \* Package changed from `civil` to `toml`.
- \* 'Local' prefix added to all structs.

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Go support for Protocol Buffers - Google's data interchange format

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# 1.866 honnef-staticcheck 0.0.1-2019.2.3

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# 1.867 profile 1.5.0

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# 1.868 jetty-security 9.4.51.v20230217

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\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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## 1.875 logr 1.2.4

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Package: logr

Title: Creates Log Files

Version: 1.2.4

Authors@R:

```
person(given = "David",  
       family = "Bosak",  
       role = c("aut", "cre"),  
       email = "dbosak01@gmail.com")
```

Description: Contains functions to help create log files. The package aims to overcome the difficulty of the base R sink() command. The log\_print() function will print to both the console and the file log, without interfering in other write operations.

License: CC0

Encoding: UTF-8

URL: <https://logr.r-sassy.org>  
BugReports: <https://github.com/dbosak01/logr/issues>  
Depends: R (>= 3.4.0)  
Suggests: knitr,  
    rmarkdown,  
    testthat,  
    tidylog,  
    dplyr,  
    utils  
Imports: withr  
VignetteBuilder: knitr  
Roxygen: list(markdown = TRUE)  
RoxygenNote: 7.1.1

Found in path(s):

\* /opt/cola/permits/1659984856\_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/DESCRIPTION

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\* Bootstrap Table of Contents v0.4.1 (<http://afeld.github.io/bootstrap-toc/>)

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\* /opt/cola/permits/1659984856\_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.css

\* /opt/cola/permits/1659984856\_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.js

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Source: <https://github.com/algolia/docsearch/>

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# 1.876 git 2.25.1-1ubuntu3.11

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# 1.877 lib-pq 1.10.9

## 1.877.1 Available under license :

```
//go:build go1.10
```

```
// +build go1.10
```

```
package pq
```

```
import (  
    "context"  
    "database/sql/driver"  
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A  
// runtime panic occurs if c is not a pq connection. This is rarely used  
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.  
func NoticeHandler(c driver.Conn) func(*Error) {  
    return c.(*conn).noticeHandler  
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A  
// runtime panic occurs if c is not a pq connection. A nil handler may be used  
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and  
// ConnectorWithNoticeHandler instead.  
//  
// Note: Notice handlers are executed synchronously by pq meaning commands  
// won't continue to be processed until the handler returns.  
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {  
    c.(*conn).noticeHandler = handler  
}
```

```
// NoticeHandlerConnector wraps a regular connector and sets a notice handler
```

```

//
on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

```

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# 1.878 utils 0.0.0-20230406110748-d93618cff8a2

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# 1.879 joda-time 2.12.5

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# 1.880 Icms 2.14

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```
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
*
/opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
*
/opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/HeadersUtils.java
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jar/io/netty/handler/codec/EmptyHeaders.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/Headers.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/DefaultHeaders.java

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jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java  
\*  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-



jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/LzfEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2Constants.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/FastLz.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/AsciiHeadersEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Lz4Constants.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2Decoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/json/JsonObjectDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2Encoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/DecoderResultProvider.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Crc32.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/MessageAggregationException.java

```
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/LzfDecoder.java
*
```

```
/opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/json/package-info.java
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*/
```

```
/*
```

```
* Written by Robert Harder and released to the public domain, as explained at
```

```
* https://creativecommons.org/licenses/publicdomain
```

```
*/
```

```
/**
```

```
* Enumeration of supported Base64 dialects.
```

```
* <p>
```

```
* The internal lookup tables in this class has been derived from
```

```
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert
```

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```
* Base64 Encoder/Decoder</a>.
```

```
*/
```

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```
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/base64/Base64Dialect.java
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jar/io/netty/handler/codec/compression/StandardCompressionOptions.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/GzipOptions.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/BrotliDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/BrotliOptions.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Zstd.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/ZstdOptions.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/CompressionOptions.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/BrotliEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Brotli.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/ZstdEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/ZstdConstants.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/DeflateOptions.java  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java  
\*

/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java

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jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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/\*\*

\* A decoder that splits the received { @link ByteBuf}s dynamically by the  
\* value of the length field in the message. It is particularly useful when you  
\* decode a binary message which has an integer header field that represents the  
\* length of the message body or the whole message.

\*

<p>

\* { @link LengthFieldBasedFrameDecoder } has many configuration parameters so  
\* that it can decode any message with a length field, which is often seen in  
\* proprietary client-server protocols. Here are some example that will give  
\* you the basic idea on which option does what.

\*

\* <h3>2 bytes length field at offset 0, do not strip header</h3>

\*

\* The value of the length field in this example is <tt>12 (0x0C)</tt> which  
\* represents the length of "HELLO, WORLD". By default, the decoder assumes  
\* that the length field represents the number of the bytes that follows the  
\* length field. Therefore, it can be decoded with the simplistic parameter  
\* combination.

\* <pre>

```

* <b>lengthFieldOffset</b> = <b>0</b>
* <b>lengthFieldLength</b> = <b>2</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content
* |---->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* { @link ByteBuffer#readableBytes() }, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0

```

```

*
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+-----+-----+
* | Length | Actual Content |----->| Length | Actual
Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
| 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |   | 0x00000C | 0xCAFE | "HELLO,
WORLD" |
* +-----+-----+-----+-----+
* </pre>

```

```

*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*   strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
  LEN)
*
* BEFORE DECODE (16 bytes)           AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*   strip the first header field and the length field, the length field
*   represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
  the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)           AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>

```



\* @see LengthFieldPrepender

\*/

Found in path(s):

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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\* Utility class for {@link ByteBuf} that encodes and decodes to and from

\* [Base64](https://en.wikipedia.org/wiki/Base64) notation.

\* <p>

\* The encoding and decoding algorithm in this class has been derived from

\* [Robert Harder's Public Domain](http://iharder.sourceforge.net/current/java/base64/)

\* [Base64 Encoder/Decoder](#).

\*/

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image/io.netty.netty-codec/native-image.properties

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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java

\*

/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java

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\*

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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java

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\*

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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java

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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
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jar/io/netty/handler/codec/LineBasedFrameDecoder.java  
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jar/io/netty/handler/codec/string/StringDecoder.java  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/package-info.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/EncoderException.java  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/string/package-info.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/xml/package-info.java  
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jar/io/netty/handler/codec/string/LineEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/CodecOutputList.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/CompressionUtil.java  
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jar/io/netty/handler/codec/DateFormatter.java  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
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Found in path(s):

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/EncoderUtil.java

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Found in path(s):

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java

\*

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/ValueConverter.java

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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/FastThreadLocalThread.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/CleanerJava6.java

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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/logging/MessageFormatter.java

\*  
/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/logging/FormattingTuple.java

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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/NetUtilInitializations.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/DomainWildcardMappingBuilder.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/NetUtilSubstitutions.java

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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/META-INF/native-image/io.netty.netty-common/native-image.properties

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```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/ConstantPool.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/DefaultThreadFactory.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/Future.java
*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/Promise.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/ProgressiveFuture.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/PromiseTask.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/DefaultProgressivePromise.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/ThreadPerTaskExecutor.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/ResourceLeakException.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/DefaultPromise.java
*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/ImmediateExecutor.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/ProgressivePromise.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/ReadOnlyIterator.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/ResourceLeakDetector.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
```

jar/io/netty/util/internal/EmptyArrays.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/ScheduledFuture.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/package-info.java  
\*  
/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/GenericFutureListener.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/FutureListener.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/DefaultFutureListeners.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java  
\*  
/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/ImmediateEventExecutor.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/AbstractReferenceCounted.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ReferenceCountUtil.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/logging/package-info.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/Recycler.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ReferenceCounted.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/Version.java  
\*  
/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutor.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/PlatformDependent0.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ResourceLeak.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/PendingWrite.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/CompleteFuture.java

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* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/AppendableCharSequence.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/ConcurrentSet.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/AbstractFuture.java
*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/RecyclableArrayList.java
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* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/IllegalReferenceCountException.java
*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/package-info.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/Timeout.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/BlockingOperationException.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/logging/Slf4JLogger.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/package-info.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/Timer.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
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jar/io/netty/util/concurrent/GlobalEventExecutor.java  
\*  
/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/DefaultEventExecutor.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/SystemPropertyUtil.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/AbstractConstant.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/Attribute.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/EventExecutorGroup.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/StringUtil.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/DefaultAttributeMap.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/SucceededFuture.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/HashedWheelTimer.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/PlatformDependent.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/SingleThreadEventExecutor.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/Signal.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/logging/CommonsLoggerFactory.java  
\*  
/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/NetUtil.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/FailedFuture.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/logging/AbstractInternalLogger.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/logging/InternalLoggerFactory.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/CharsetUtil.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/logging/InternalLogLevel.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/logging/JdkLoggerFactory.java

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*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/AttributeMap.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/AttributeKey.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/Constant.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/TimerTask.java
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* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/collection/ShortObjectMap.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/collection/LongObjectMap.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/collection/ByteObjectHashMap.java
*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/collection/CharCollections.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/collection/ShortCollections.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/ObjectUtil.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/collection/CharObjectHashMap.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/collection/IntObjectHashMap.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
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jar/io/netty/util/collection/LongCollections.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/collection/CharObjectMap.java  
\*  
/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/collection/ByteObjectMap.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/collection/IntObjectMap.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/collection/ShortObjectHashMap.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/collection/IntCollections.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/collection/LongObjectHashMap.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/collection/ByteCollections.java

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jar/io/netty/util/ThreadDeathWatcher.java  
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jar/io/netty/util/concurrent/PromiseAggregator.java  
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jar/io/netty/util/concurrent/FastThreadLocal.java  
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jar/io/netty/util/ResourceLeakHint.java  
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jar/io/netty/util/AsciiString.java

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jar/io/netty/util/concurrent/PromiseNotifier.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/IntegerHolder.java
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jar/io/netty/util/internal/NativeLibraryLoader.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
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/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/Mapping.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/DomainNameMapping.java
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jar/io/netty/util/internal/logging/InternalLogger.java

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jar/io/netty/util/internal/logging/CommonsLogger.java

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jar/io/netty/util/internal/logging/JdkLogger.java

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jar/io/netty/util/internal/Cleaner.java

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jar/io/netty/util/internal/CleanerJava9.java

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- \* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/QueueFactory.java
- \* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeJvmInfo.java
- \*
- /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMap.java
- \* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueueUtil.java
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- \* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscGrowableArrayQueue.java
- \* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashSet.java
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
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jar/io/netty/util/internal/shaded/org/jctools/queues/BaseMpscLinkedListArrayQueue.java  
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* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
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/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
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jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java
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```

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
```

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  <artifactId>jctools-core</artifactId>
  <groupId>org.jctools</groupId>
  <version>3.1.0</version>
  <name>Java Concurrency Tools Core Library</name>
  <description>Java Concurrency Tools Core Library</description>
  <packaging>bundle</packaging>
```

```

<dependencies>
  <dependency>
    <groupId>org.hamcrest</groupId>
    <artifactId>hamcrest-all</artifactId>
    <version>${hamcrest.version}</version>
    <scope>test</scope>
  </dependency>

  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>${junit.version}</version>
    <scope>test</scope>
  </dependency>

  <dependency>
    <groupId>com.google.guava</groupId>
    <artifactId>guava-testlib</artifactId>
    <version>${guava-testlib.version}</version>
    <scope>test</scope>
  </dependency>
</dependencies>
<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-surefire-plugin</artifactId>
      <version>3.0.0-M3</version>
      <configuration>
        <includes>
          <include>*</include>
        </includes>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.felix</groupId>
      <artifactId>maven-bundle-plugin</artifactId>
      <version>4.2.1</version>
      <extensions>>true</extensions>
      <configuration>
        <instructions>
          <Import-Package>sun.misc;resolution:=optional</Import-Package>
        </instructions>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>

```

```

<artifactId>maven-source-plugin</artifactId>
<version>3.2.0</version>
<executions>
  <execution>
    <id>attach-sources</id>
    <phase>verify</phase>
    <goals>
      <goal>jar-no-fork</goal>
    </goals>
  </execution>
</executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
    <additionalOptions>
      <additionalOption>-Xdoclint:none</additionalOption>
    </additionalOptions>
    <source>8</source>
  </configuration>
  <executions>
    <execution>
      <id>attach-javadocs</id>
      <goals>
        <goal>jar</goal>
      </goals>
    </execution>
  </executions>
</plugin>
</plugins>
</build>

<distributionManagement>
  <repository>
    <id>bintray-jctools-jctools</id>
    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
  </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
  <license>
    <name>Apache

```

```
License, Version 2.0</name>
  <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
  <distribution>repo</distribution>
</license>
</licenses>

<scm>
  <url>https://github.com/JCTools/JCTools</url>
  <connection>scm:git:https://github.com/JCTools/JCTools</connection>
  <tag>HEAD</tag>
</scm>

<developers>
  <developer>
    <url>https://github.com/nitsanw</url>
  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
    <url>https://github.com/kay</url>
  </developer>
  <developer>
    <url>https://github.com/franz1981</url>
  </developer>
</developers>

<prerequisites>
  <maven>3.5.0</maven>
</prerequisites>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
</properties>
```



</project>

Found

in path(s):

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ResourceLeakTracker.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/MacAddressUtil.java

\*

/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java

\*

```
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/OrderedEventExecutor.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/ConstantTimeUtils.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/DomainNameMappingBuilder.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/logging/Log4J2Logger.java
*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/ThrowableUtil.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/UnstableApi.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/PromiseNotificationUtil.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/IntSupplier.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/SocketUtils.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/BooleanSupplier.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/PromiseCombiner.java
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/META-INF/maven/io.netty/netty-common/pom.xml

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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/ObjectPool.java

\*

/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/svm/package-info.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/ThreadExecutorMap.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/svm/CleanerJava6Substitution.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/ReferenceCountUpdater.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/Hidden.java

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```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/ClassInitializerUtil.java
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* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/MathUtil.java
```

```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/ByteProcessor.java
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/ThreadLocalRandom.java

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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/SuppressForbidden.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/UncheckedBooleanSupplier.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/LongAdderCounter.java

\*

/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/EmptyPriorityQueue.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/ReflectionUtil.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/NettyRuntime.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/PriorityQueue.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/ObjectCleaner.java  
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Found in path(s):

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java  
\*  
/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/LongCounter.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/DomainMappingBuilder.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/HashingStrategy.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/AsyncMapping.java  
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*/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/SuppressJava6Requirement.java
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io.netty.util.internal.Hidden$NettyBlockHoundIntegration
```

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```
*/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/META-
INF/services/reactor.blockhound.integration.BlockHoundIntegration
```

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### 4.1.92.Final

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* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/IntegerUnixChannelOption.java
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/RawUnixChannelOption.java
```

```
*
/opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/GenericUnixChannelOption.java
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* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/netty_unix.c
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
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Found in path(s):

\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml

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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io.netty/channel/unix/UnixChannelUtil.java

\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_jni.h

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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/Unix.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java  
\*

/opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/IovArray.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/package-info.java

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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_util.c  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_limits.c  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java  
\*

/opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_limits.h  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-

jar/netty\_unix\_util.h

\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/Limits.java

\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java

\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/PeerCredentials.java

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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java

\*

/opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/SegmentedDatagramPacket.java

\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/DomainDatagramPacket.java

\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/DomainDatagramSocketAddress.java

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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_buffer.c  
\*

/opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_buffer.h

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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java  
\*

/opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/FileDescriptor.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_socket.c

\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-

```
jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/netty_unix_errors.c
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/DomainSocketAddress.java
*
/opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/netty_unix_socket.h
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/DomainSocketChannel.java
*
/opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/Errors.java
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\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/HostsFileEntriesProvider.java

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\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java

\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/AddressResolver.java

\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-

jar/io/netty/resolver/HostsFileParser.java

\*

/opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-

jar/io/netty/resolver/InetSocketAddressResolver.java

\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-

jar/io/netty/resolver/HostsFileEntriesResolver.java

\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-

jar/io/netty/resolver/DefaultAddressResolverGroup.java

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jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java

\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-

jar/io/netty/resolver/CompositeNameResolver.java

\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-

jar/io/netty/resolver/DefaultNameResolver.java

\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-

jar/io/netty/resolver/InetNameResolver.java

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jar/io/netty/resolver/NameResolver.java

\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-

jar/io/netty/resolver/SimpleNameResolver.java

\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-

jar/io/netty/resolver/package-info.java

\*

/opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-

jar/io/netty/resolver/AddressResolverGroup.java

\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-

jar/io/netty/resolver/NoopAddressResolverGroup.java

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jar/io/netty/resolver/NoopAddressResolver.java

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* /opt/cola/permits/1670233273_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java
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jar/io/netty/channel/pool/FixedChannelPool.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
*
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/pool/package-info.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
*
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/pool/ChannelPool.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
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jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
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jar/io/netty/channel/DefaultChannelProgressivePromise.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/group/ChannelGroup.java  
*  
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/DefaultChannelId.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelId.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/AbstractEventLoopGroup.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelProgressiveFutureListener.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/AddressedEnvelope.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/group/ChannelMatcher.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/group/ChannelGroupException.java  
*  
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/nio/SelectedSelectionKeySet.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelHandlerAdapter.java
```

```
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
*
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
*
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java

\*

/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/AbstractEventLoop.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ServerChannelRecvByteBufAllocator.java

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/\*\*

\* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in

```

* its { @link ChannelPipeline }.
*
* <h3>Sub-types</h3>
* <p>
* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
subtypes:
* <ul>
* <li>{ @link
ChannelInboundHandler } to handle inbound I/O events, and</li>
* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>
* <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>
* <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }
* object. A { @link ChannelHandler } is supposed to interact with the
* { @link ChannelPipeline } it belongs to via a context object. Using the
* context object, the { @link ChannelHandler } can pass events upstream or
* downstream, modify the pipeline dynamically,
* or store the information
* (using { @link AttributeKey }s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A { @link ChannelHandler } often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler }&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     { @code @Override }

```

```

* public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) message);
*         <b>loggedIn = true;</b>
*     } else if (message instanceof GetDataMessage) {
*         if (<b>loggedIn</b>) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*         } else {
*             fail();
*         }
*     }
* }
* }
* ...
* }
* </pre>

```

\* Because the handler instance has a state variable which is dedicated to
 \* one connection, you have to create a new handler instance for each new
 \* channel to avoid a race condition where an unauthenticated client can get
 \* the confidential information:

```

* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel(@link Channel channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
* }
* </pre>

```

\* <h4>Using {@link AttributeKey}s</h4>

\* Although it's recommended to use member variables to store the state of a
 \* handler, for some reason you might not want to create many handler instances.
 \* In such a case, you can use {@link AttributeKey}s which is provided by
 \* {@link ChannelHandlerContext}:

```

* <pre>
* public interface Message {
*     // your methods here
* }
* }
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
* }

```

```

*   { @code @Override }
*   public void channelRead({ @link ChannelHandlerContext } ctx, Message message) {
*       { @link Attribute } &lt; &gt; { @link Boolean } &gt; attr = ctx.attr(auth);
*       if (message instanceof LoginMessage) {
*           authenticate((LoginMessage) o);
*           <b>attr.set(true)</b>;
*       } else (message instanceof GetDataMessage) {
*           if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*               ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*           } else {
*               fail();
*           }
*       }
*   }
* }
* ...
* }
* </pre>

```

Now that the state of the handler is attached to the { @link ChannelHandlerContext }, you can add the same handler instance to different pipelines:

```

* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer } &lt; &gt; { @link Channel } &gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override }
*     public void initChannel({ @link Channel } channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>

```

<h4>The { @code @Sharable } annotation</h4>

<p>In the example above which used an { @link AttributeKey }, you might have noticed the { @code @Sharable } annotation.

<p>If a { @link ChannelHandler } is annotated with the { @code @Sharable } annotation, it means you can create an instance of the handler just once and add it to one or more { @link ChannelPipeline }s multiple times without a race condition.

<p>If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

<p>



\* This annotation is provided for documentation purpose, just like  
\* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.  
\*  
\* <h3>Additional resources worth reading</h3>  
\* <p>  
\* Please refer to the { @link ChannelHandler}, and  
\* { @link ChannelPipeline} to find out more about inbound and outbound operations,  
\* what fundamental differences they have, how they flow in a pipeline, and how to handle  
\* the operation in your application.  
\*/

Found in path(s):

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelHandler.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelHandlerMask.java

\*

/\*  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java

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jar/io/netty/channel/socket/nio/SelectorProviderUtil.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/StacklessClosedChannelException.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java

\*

/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/bootstrap/FailedChannel.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/internal/package-info.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/PendingBytesTracker.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java

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/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/EventLoop.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java

\*

/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelFuture.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/AbstractServerChannel.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelMetadata.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java

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/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/AbstractChannel.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/SocketChannel.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ChannelInitializer.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ChannelException.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/SucceededChannelFuture.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/package-info.java
*
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ChannelPromiseAggregator.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ChannelOption.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/DefaultFileRegion.java
*
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/bootstrap/AbstractBootstrap.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ChannelPromise.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/local/LocalChannel.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/oio/OioEventLoopGroup.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/nio/NioSocketChannel.java
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/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/embedded/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ServerChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/bootstrap/Bootstrap.java  
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/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/group/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultChannelPromise.java  
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/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/local/LocalServerChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/nio/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java  
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/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/DatagramPacket.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/ChannelPipeline.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/group/CombinedIterator.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/bootstrap/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelFutureListener.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelInboundHandlerAdapter.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/group/DefaultChannelGroupFuture.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/oio/AbstractOioMessageChannel.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/CompleteChannelFuture.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/nio/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/group/ChannelGroupFutureListener.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/local/LocalEventLoopGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/nio/NioEventLoopGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/ServerSocketChannel.java  
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/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/DefaultSocketChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/MultithreadEventLoopGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/DefaultChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/nio/NioEventLoop.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/EventLoopException.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/local/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/FailedChannelFuture.java



\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelInboundHandler.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/package-info.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelPipelineException.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultEventLoop.java  
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 /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/EventLoopGroup.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/DatagramChannel.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java  
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 /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/FileRegion.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/VoidChannelPromise.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/oio/package-info.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java  
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 /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/local/LocalAddress.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelHandlerContext.java  
 \* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/Channel.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/oio/AbstractOioByteChannel.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/ChannelInboundInvoker.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/bootstrap/BootstrapConfig.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/DefaultSelectStrategyFactory.java

\*

/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/WriteBufferWaterMark.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/group/VoidChannelGroupFuture.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/bootstrap/ServerBootstrapConfig.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/DefaultSelectStrategy.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/SelectStrategy.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/SelectStrategyFactory.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/ChannelOutboundInvoker.java

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/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/socket/DuplexChannel.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/PreferHeapByteBufAllocator.java

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* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/bootstrap/AbstractBootstrapConfig.java
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* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/DefaultChannelHandlerContext.java
```

## 1.887 netty-handler 4.1.92.Final

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* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
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jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/pcap/TCPpacket.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java

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/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/pcap/PcapWriter.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/pcap/IPPacket.java

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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/logging/LogLevel.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java

\*

/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/package-info.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/stream/package-info.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/stream/ChunkedInput.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/logging/package-info.java

\*

/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/timeout/IdleState.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-

jar/io/netty/handler/timeout/TimeoutException.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/timeout/package-info.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/stream/ChunkedStream.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/logging/LoggingHandler.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/timeout/ReadTimeoutException.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/timeout/IdleStateHandler.java  
\*  
/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/util/package-info.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/stream/ChunkedNioStream.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/stream/ChunkedFile.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/NotSslRecordException.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/SslHandler.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/timeout/WriteTimeoutException.java  
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jar/io/netty/handler/traffic/TrafficCounter.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java  
\*

/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java  
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jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/BouncyCastlePemReader.java  
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jar/io/netty/handler/ssl/Ciphers.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java  
\*  
/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/SslProtocols.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/SslContextOption.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/AsyncRunnable.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionId.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/BouncyCastle.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java

\*

/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java

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- \* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
- \*
- /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
- \* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
- \* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/flush/package-info.java
- \* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
- \* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/PemValue.java
- \* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
- \* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
- \* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
- \*
- /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
- \* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
- \* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
- \* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
- \* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java
- \* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/flow/package-info.java

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jar/io/netty/handler/ssl/ApplicationProtocolNames.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java

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jar/io/netty/handler/ssl/ClientAuth.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java

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jar/io/netty/handler/ssl/SslContextBuilder.java

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jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java

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jar/io/netty/handler/ssl/StacklessSSLHandshakeException.java

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### 4.1.92.Final

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jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java
```

```
*
/opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
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```

```
*/
/**
* Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
```

```
*/
/**
* Set the { @code TCP_QUICKACK } option on the socket.
* See <a href="https://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
```

\* for more details.

\*/

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\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java

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\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/Native.java

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/\*\*

\* Set the { @code TCP\_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.  
\* Keys can only be set on, not read to prevent a potential leak, as they are confidential.  
\* Allowing them being read would mean anyone with access to the channel could get them.

\*/

Found in path(s):

\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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Found in path(s):

```
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
*
/opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/TcpMd5Util.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
*
/opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollEventArray.java
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```
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
```

```
jar/io/netty/channel/epoll/Epoll.java
*
/opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannel.java
*
/opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
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```
Found in path(s):
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/META-INF/maven/io.netty/netty-transport-classes-epoll/pom.xml
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\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/META-INF/native-image/io.netty/netty-transport-classes-epoll/native-image.properties

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\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io.netty/channel/epoll/EpollDatagramChannelConfig.java

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builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

```
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
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#
src/tools/apinames.c
src/tools/ftandom/ftandom.c
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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# 1.904 google-golang-org-genproto 0.0.0- 20210602131652-f16073e35f0c

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# 1.905 kube-openapi 0.0.0-20230501164219-8b0f38b5fd1f

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
# This source code was written by the Go contributors.
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```

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```

```
package spec
```

```
import "testing"
```

```
func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url\n"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}
```

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## 1.906 servlet-api 3.0.1

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
```

Ty Coon, President of Vice

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# 1.913 masterminds-semver 3.2.1

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## 1.914 prometheus-client 0.4.0

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```
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```

```
# This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppender
#
# It is intended for PostgreSQL databases.
```

```
DROP TABLE access_event_exception;
DROP SEQUENCE access_event_id_seq;
DROP TABLE access_event;
```

```
CREATE SEQUENCE access_event_id_seq MINVALUE 1 START 1;
```

```
CREATE TABLE access_event
(
  timestmp      BIGINT NOT NULL,
  requestURI    VARCHAR(254),
  requestURL    VARCHAR(254),
  remoteHost    VARCHAR(254),
  remoteUser    VARCHAR(254),
  remoteAddr    VARCHAR(254),
  protocol      VARCHAR(254),
  method        VARCHAR(254),
  serverName    VARCHAR(254),
  postContent   VARCHAR(254),
  event_id      BIGINT DEFAULT
nextval('access_event_id_seq') PRIMARY KEY
);
```

```
CREATE TABLE access_event_header
(
  event_id      BIGINT NOT NULL,
  header_key    VARCHAR(254) NOT NULL,
  header_value  VARCHAR(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/db/script/postgresql.sql
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```
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#  
# It is intended for MySQL databases. It has been tested on MySQL 5.5.31 with  
# INNODB tables.
```

```
BEGIN;  
DROP TABLE IF EXISTS access_event_header;  
DROP TABLE IF EXISTS access_event;  
COMMIT;
```

```
BEGIN;  
CREATE TABLE access_event  
(  
  timestmp      BIGINT NOT NULL,  
  requestURI    VARCHAR(254),  
  requestURL    VARCHAR(254),  
  remoteHost    VARCHAR(254),  
  remoteUser    VARCHAR(254),  
  remoteAddr    VARCHAR(254),  
  protocol      VARCHAR(254),  
  method        VARCHAR(254),  
  serverName    VARCHAR(254),  
  postContent   VARCHAR(254),  
  event_id      BIGINT NOT NULL  
  AUTO_INCREMENT PRIMARY KEY  
);  
COMMIT;
```

```
BEGIN;  
CREATE TABLE access_event_header  
(  
  event_id      BIGINT NOT NULL,  
  header_key    VARCHAR(254) NOT NULL,  
  header_value  VARCHAR(1024),  
  PRIMARY KEY(event_id, header_key),  
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)  
);  
COMMIT;
```

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```
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--  
-- It is intended for Oracle databases.
```

```
CREATE SEQUENCE access_event_id_seq MINVALUE 1 START WITH 1;
```

```
CREATE TABLE access_event  
(  
  timestmp      NUMBER(20) NOT NULL,  
  requestURI    VARCHAR(254),  
  requestURL    VARCHAR(254),  
  remoteHost    VARCHAR(254),  
  remoteUser    VARCHAR(254),  
  remoteAddr    VARCHAR(254),  
  protocol      VARCHAR(254),  
  method        VARCHAR(254),  
  serverName    VARCHAR(254),  
  postContent   VARCHAR(254),  
  event_id      NUMBER(20) PRIMARY KEY  
);
```

```
-- the / suffix may or may not be needed depending on your SQL Client  
--  
Some SQL Clients, e.g. Squirrel SQL has trouble with the following  
-- trigger creation command, while SQLPlus (the basic SQL Client which  
-- ships with Oracle) has no trouble at all.
```

```
CREATE TRIGGER access_event_id_seq_trig  
BEFORE INSERT ON access_event  
FOR EACH ROW  
BEGIN  
  SELECT access_event_id_seq.NEXTVAL  
  INTO   :NEW.event_id  
  FROM   DUAL;  
END access_event_id_seq_trig;  
/
```

```
CREATE TABLE access_event_header  
(  
  event_id      NUMBER(20) NOT NULL,  
  header_key    VARCHAR2(254) NOT NULL,  
  header_value  VARCHAR2(1024),
```

```
PRIMARY KEY(event_id, header_key),
FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
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#
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```

```
# conditions.
```

```
# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
```

```
#
```

```
# It is intended for IBM DB2 databases.
```

```
#
```

```
# WARNING WARNING WARNING WARNING
```

```
# =====
```

```
# This SQL script has not been tested on an actual DB2
```

```
# instance. It may contain errors or even invalid SQL
```

```
# statements.
```

```
DROP TABLE access_event_header;
```

```
DROP TABLE access_event;
```

```
CREATE TABLE access_event
```

```
(
```

```
  timestmp      BIGINT NOT NULL,
```

```
  requestURI    VARCHAR(254),
```

```
  requestURL    VARCHAR(254),
```

```
  remoteHost    VARCHAR(254),
```

```
  remoteUser    VARCHAR(254),
```

```
  remoteAddr    VARCHAR(254),
```

```
  protocol      VARCHAR(254),
```

```
  method        VARCHAR(254),
```

```
  serverName
```

```
    VARCHAR(254),
```

```
  postContent   VARCHAR(254),
```

```
  event_id      INTEGER GENERATED ALWAYS AS IDENTITY (START WITH 1)
```

```
);
```

```
CREATE TABLE access_event_header
```

```
(
```

```
  event_id      INTEGER NOT NULL,
```

```
  header_key    VARCHAR(254) NOT NULL,
```

```
header_value    VARCHAR(1024),
PRIMARY KEY(event_id, header_key),
FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/db/script/db2.sql
```

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```
/**
```

```
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```

```
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```

```
*
```

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```
*
```

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```

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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/ElapsedSecondsConverter.java
```

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/SessionIDConverter.java
```

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/QueryStringConverter.java
```

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/ThreadNameConverter.java
```

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```
/**
```

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```
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```

```
*/
```

Found in path(s):

- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/boolex/JaninoEventEvaluator.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/SocketNode.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/FullResponseConverter.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/jetty/RequestLogRegistry.java
- \*
- /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/html/UrlCssBuilder.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/spi/AccessContext.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/server/ServerSocketAppender.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/LocalIPAddressConverter.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/SMTPAppender.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/PeriodicStats.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/Util.java
- \*
- /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/AccessConstants.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/sift/SiftingJoranConfigurator.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/FullRequestConverter.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/html/DefaultCssBuilder.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/AccessConverter.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/LineSeparatorConverter.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/EnsureLineSeparation.java
- \*
- /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RemoteHostConverter.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestContentConverter.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeServletOutputStream.java
- \* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-

jar/ch/qos/logback/access/html/HTMLLayout.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/filter/StatsByDay.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/joran/action/EvaluatorAction.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/filter/StatsByWeek.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/ResponseHeaderConverter.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/PatternLayoutEncoder.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/RemoteUserConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/servlet/TeeHttpServletResponse.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/jetty/JettyServerAdapter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/RemoteIPAddressConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/NAConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/spi/IAccessEvent.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/sift/AccessEventDiscriminator.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/tomcat/LogbackValve.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/filter/CountingFilter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/RequestCookieConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/LocalPortConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/RequestHeaderConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/servlet/TeeFilter.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/RequestURLConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/filter/StatisticalView.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/StatusCodeConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/RequestMethodConverter.java

\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/DateConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeServletInputStream.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/sift/SiftAction.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/jetty/JettyModernServerAdapter.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeHttpServletRequest.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/ResponseContentConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByMonth.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/jetty/RequestLogImpl.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestAttributeConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestProtocolConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/AccessEventPreSerializationTransformer.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/SSLSocketAppender.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByHour.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/joran/JoranConfigurator.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/ViewStatusMessagesServlet.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByMinute.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/spi/AccessEvent.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/tomcat/TomcatServerAdapter.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/joran/action/ConfigurationAction.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestURICConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/ElapsedTimeConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/ContentLengthConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-



```
jar/ch/qos/logback/access/sift/AppenderFactoryUsingJoran.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/net/URLEvaluator.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/net/server/SSLServerSocketAppender.java
*
/opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/net/SocketAppender.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/spi/ServerAdapter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/sift/SiftingAppender.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/filter/StatisticalViewImpl.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/ServerNameConverter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/spi/Util.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/RequestParameterConverter.java
*
/opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/net/SimpleSocketServer.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/PatternLayout.java
```

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--

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-- conditions.

-- This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender

--

```
DROP TABLE access_event_header
```

```
DROP TABLE access_event
```

```
CREATE TABLE access_event
```

```
(
  timestmp      BIGINT NOT NULL,
  requestURI    VARCHAR(254),
  requestURL    VARCHAR(254),
  remoteHost    VARCHAR(254),
  remoteUser    VARCHAR(254),
  remoteAddr    VARCHAR(254),
  protocol      VARCHAR(254),
```

```
method      VARCHAR(254),
serverName  VARCHAR(254),
postContent VARCHAR(254),
event_id    INT NOT NULL identity,
PRIMARY KEY(event_id)
)
```

```
CREATE TABLE access_event_header
(
  event_id    INT NOT NULL,
  header_key  VARCHAR(254) NOT NULL,
  header_value VARCHAR(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
)
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/db/script/msSQLServer.sql
```

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```
#
```

```
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```

```
# conditions.
```

```
# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
```

```
#
```

```
# It is intended for HSQL databases.
```

```
DROP TABLE access_event_header IF EXISTS;
```

```
DROP TABLE access_event IF EXISTS;
```

```
CREATE TABLE access_event (
  timestmp BIGINT NOT NULL,
  requestURI VARCHAR(254),
  requestURL VARCHAR(254),
  remoteHost VARCHAR(254),
  remoteUser VARCHAR(254),
  remoteAddr VARCHAR(254),
  protocol VARCHAR(254),
  method VARCHAR(254),
  serverName VARCHAR(254),
  postContent VARCHAR(254),
  event_id BIGINT NOT NULL IDENTITY);
```

```
CREATE TABLE access_event_header (  
    event_id BIGINT NOT NULL,  
    header_key VARCHAR(254) NOT NULL,  
    header_value LONGVARCHAR,  
    PRIMARY KEY(event_id, header_key),  
    FOREIGN KEY  
    (event_id) REFERENCES access_event(event_id));
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/db/script/hsqldb.sql
```

# 1.916 openssl 1.1.1f-1ubuntu2.19

## 1.916.1 Available under license :

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\* =====

\*

\* This product includes cryptographic software written by Eric Young

\* ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)). This product includes software written by Tim

\* Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com)).

\*

\*/

Original SSLeay License

-----

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\* This package is an SSL implementation written

\* by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).

\* The implementation was written so as to conform with Netscapes SSL.

\*

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Ty Coon, President of Vice
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- \* /opt/cola/permits/1704412778\_1685746927.655543/0/j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/OnDealloc.java
- \* /opt/cola/permits/1704412778\_1685746927.655543/0/j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
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- \* /opt/cola/permits/1704412778\_1685746927.655543/0/j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/AutoreleasePool.java

## 1.921 libssh 0.9.3-2ubuntu2.3

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## 1.922 free-type 2.12.1

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2006-Jan-27

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#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdfplib.c

```
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
EOF
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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The End

Perl5 Metaconfig Units

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These units are the ones used to build Configure and config\_h.SH in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you installed dist). It will then recurse through the 'U' subdirectory and find any additional "private" units. Private units override standard ones supplied with metaconfig.

Files in this directory:

README

This file.

Glossary.patch

The standard dist units contain some strings that make pod2man complain. This patch silences those warnings. As new units are added and Configure is regenerated, this patch may need more and more 'fuzz' to be applied. It should be freshly regenerated every once in a while. See also mkgloss.pl

In-all.pl

Re-generate the all/ folder

mkglossary

A script to regenerate Porting/Glossary. You have to manually edit

the top of the script to point the location of your metaconfig units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl

A perl script that calls U/mkglossary from the perl source tree, sorts the list of symbols, and applies the patch mentioned in Glossary.patch. When called on its own, redirect the output to a temporary file, and compare that file to Porting/Glossary before applying.

mksample

A script to regenerate Porting/config.sh and Porting/config.H. It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following directories.

a\_dvisory/

These are units that have to go first in the generated config\_h.SH.

A word of explanation: Configure and config\_h.SH are generated from 'Units' (the \*.U files). Files indicate dependencies (using make(1)), and

Configure is built to follow those dependencies. However, config\_h.SH is simply built by putting

all the units in alphabetical order and

extracting the relevant lines. (This could be fixed, I suppose, but it wasn't trivial the one time I looked.)

The a\_dvisory/ directory, then, is a place to put units that need to be early in config\_h.SH. (Most units are self-contained and ought to be able to go anywhere. However, some things, like byteorder, need to have the #defines from multiarch available.)

acl/

This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

all/

A folder that conveniently holds symbolic links to all the modules that are used to build the current Configure and config\_h.SH.

compline/

These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. (The ccflags.U unit is perl-specific since it mentions -DDEBUGGING and -DPOSIX\_SOURCE, but that's the only place it is perl-specific.)

dist\_patches/

These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution. They have already been applied to the ../dist-3.0at70b directory.

ebcdic/

These are units that had to be specially modified to work under either EBCDIC or ASCII.

installdirs/

These are units to handle perl's installation directories and related issues.



modified/

These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

nullified/

These are null units that replace units in the standard distribution. Typically they are there because some part of the perl source accidentally uses a symbol that metaconfig thinks means we want the corresponding unit.

perl/

These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

perl\_patches/

These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/

These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes.

threads/

These are specific to threading perl.

typedefs/

These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typedef being searched for exists.)

Where appropriate, I submitted these units for inclusion into the regular dist distribution. However, since dist is no longer actively maintained, and the alternative is for \*me\* to actively maintain it, the units just sit here.

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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# 1.928 jersey-server 2.39.1

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

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## 1.936 slf4j-impl 1.7.36

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Upstream-Contact: Kenneth Reitz <[me@kennethreitz.com](mailto:me@kennethreitz.com)>

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```

Found in path(s):

```
* /opt/cola/permits/1719630887_1686604745.8385057/0/scala-collection-compat-2-13-2-10-0-sources-jar/scala/util/control/compat/package.scala
* /opt/cola/permits/1719630887_1686604745.8385057/0/scala-collection-compat-2-13-2-10-0-sources-jar/scala/collection/compat/immutable/package.scala
* /opt/cola/permits/1719630887_1686604745.8385057/0/scala-collection-compat-2-13-2-10-0-sources-jar/scala/collection/compat/package.scala
```

# 1.941 reload4j 1.2.25

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# 1.942 python-pip 20.0.2-5ubuntu1.9

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
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2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes

2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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# 1.943 util-linux 2.34-0.1ubuntu9.4

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

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```

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short

notice like this when it starts in an interactive mode:

```
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```

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```
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procfs provides functions to retrieve system, kernel and process  
metrics from the pseudo-filesystem proc.

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## 1.961 squirrel 1.5.4

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## 1.962 metrics-httpclient 4.2.19

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.httpclient

Build-Jdk-Spec: 11

Bundle-Description: An Apache HttpClient wrapper providing Metrics instrumentation of connection pools, request durations and rates, and other useful information.

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Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration for Apache HttpClient

Bundle-SymbolicName: io.dropwizard.metrics.httpClient  
Bundle-Version: 4.2.19  
Created-By: Apache Maven Bundle Plugin 5.1.9  
Export-Package: com.codahale.metrics.httpClient;uses:="com.codahale.me  
trics,org.apache.http,org.apache.http.config,org.apache.http.conn,org  
.apache.http.conn.routing,org.apache.http.conn.socket,org.apache.http  
.impl.client,org.apache.http.impl.conn,org.apache.http.protocol";vers  
ion="4.2.19"  
Implementation-Title: Metrics Integration for Apache HttpClient  
Implementation-Version: 4.2.19  
Import-Package:  
com.codahale.metrics;version="[4.2,5)",org.apache.http  
,org.apache.http.client,org.apache.http.client.methods,org.apache.htt  
p.client.utils,org.apache.http.config,org.apache.http.conn,org.apache  
.http.conn.routing,org.apache.http.conn.socket,org.apache.http.conn.s  
sl,org.apache.http.impl.client,org.apache.http.impl.conn,org.apache.h  
ttp.pool,org.apache.http.protocol  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-6.3.1.202206071316

Found in path(s):

\* /opt/cola/permits/1734075126\_1695634098.003408/0/metrics-httpclient-4-2-19-jar/META-INF/MANIFEST.MF

# 1.963 guava 32.1.1-jre

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Doug Lea

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Found in path(s):

```
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
*
/opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/AsciiHeadersEncoder.java
*
/opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
```

jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2Decoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/MessageAggregationException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2Encoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/LzfDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2Constants.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/json/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/FastLz.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2Rand.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Lz4Constants.java  
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/ValueConverter.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/DefaultHeadersImpl.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/CharSequenceValueConverter.java

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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java  
\*  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/UnsupportedValueConverter.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/HeadersUtils.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

```
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
*
/opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
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image/io.netty.netty-codec/native-image.properties
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* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/EncoderUtil.java
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/string/LineSeparator.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/CodecOutputList.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/DatagramPacketEncoder.java  
\*

/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/ByteBufChecksum.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/CompressionUtil.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/string/LineEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/DateFormatter.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/DatagramPacketDecoder.java

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```

/**
 * A decoder that splits the received { @link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 *
 * <p>
 * { @link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 *
 * <pre>
 * <b>lengthFieldOffset</b> = <b>0</b>
 * <b>lengthFieldLength</b> = <b>2</b>
 * lengthAdjustment = 0
 * initialBytesToStrip = 0 (= do not strip header)
 *
 * BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
 * +-----+-----+ +-----+-----+
 * | Length | Actual Content
 * |---->| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
 * +-----+-----+ +-----+-----+
 * </pre>
 *
 * <h3>2 bytes length field at offset 0, strip header</h3>
 *
 * Because we can get the length of the content by calling
 * { @link ByteBuf#readableBytes()}, you might want to strip the length
 * field by specifying <tt>initialBytesToStrip</tt>. In this example, we
 * specified <tt>2</tt>, that is same with the length of the length field, to
 * strip the first two bytes.
 *
 * <pre>
 * lengthFieldOffset = 0
 * lengthFieldLength = 2
 * lengthAdjustment = 0
 * <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
 *
 * BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
 * +-----+-----+ +-----+

```

```

* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |----->| Length | Actual
* Content |
* | 0x000E | "HELLO, WORLD" | | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+ +-----+-----+-----+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+ +-----+-----+-----+
* </pre>

```

```

*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO,
* WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
* LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>

```



```

*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)           AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

```

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Found in path(s):

```

* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/META-
INF/maven/io.netty/netty-codec/pom.xml

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```
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
*
 /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/xml/package-info.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/MessageToByteEncoder.java
*
 /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
```

jar/io/netty/handler/codec/PrematureChannelClosureException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/JdkZlibEncoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/serialization/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/serialization/ReferenceMap.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/serialization/CachingClassResolver.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/EncoderException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/string/StringDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/MessageToMessageEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/DecoderResult.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/LineBasedFrameDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/serialization/ClassResolver.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/CorruptedFrameException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageAggregator.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/Delimiters.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/string/package-info.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/DecoderException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/CodecException.java  
\*

/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/bytes/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/base64/package-info.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java  
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*/
/*
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* https://creativecommons.org/licenses/publicdomain
*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* Base64 notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

Found in path(s):

```
*/opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/base64/Base64.java
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*/
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*/
```

```
/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert
 * Harder's Public Domain
 * Base64 Encoder/Decoder</a>.
 */
```

Found in path(s):

```
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/base64/Base64Dialect.java
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```
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/Headers.java
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Zstd.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/BrotliDecoder.java

\*

/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/BrotliEncoder.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Brotli.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/BrotliOptions.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/CompressionOptions.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/GzipOptions.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/ZstdConstants.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/ZstdEncoder.java



\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java

\*

/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java

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Found in path(s):

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java

\*

/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java

# 1.965 netty-transport-native-unix-common

## 4.1.94.Final

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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/RawUnixChannelOption.java  
\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/GenericUnixChannelOption.java  
\*  
/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/IntegerUnixChannelOption.java  
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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_util.c  
\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java  
\*  
/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java  
\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/PeerCredentials.java  
\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_limits.c

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_util.h  
\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java  
\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/Limits.java  
\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_limits.h

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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_errors.h

\*

/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_socket.h

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/FileDescriptor.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/Socket.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_filedescriptor.c

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_filedescriptor.h

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/Errors.java

\*

```
/opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/netty_unix_errors.c
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/netty_unix_socket.c
*
/opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
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jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml
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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java

\*

/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_buffer.c

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_buffer.h

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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_jni.h

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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/IovArray.java  
\*  
/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/package-info.java  
\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/Unix.java  
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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java  
\*  
/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainDatagramPacket.java  
\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/io/netty/channel/unix/DomainDatagramSocketAddress.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/io/netty/channel/unix/DomainDatagramChannel.java

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jar/netty\_unix.c

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/netty\_unix.h

# 1.966 netty-resolver 4.1.94.Final

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```
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/CompositeNameResolver.java
*
/opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/InetAddressResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/HostsFileParser.java
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\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/NoopAddressResolver.java  
\*  
/opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/package-info.java  
\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/SimpleNameResolver.java  
\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/AddressResolverGroup.java  
\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/NameResolver.java

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jar/io/netty/resolver/HostsFileEntriesProvider.java

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\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

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* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/META-INF/maven/io.netty/netty-handler/pom.xml
```

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```
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/META-INF/native-image/io.netty/netty-handler/native-image.properties
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jar/io/netty/handler/ssl/util/SelfSignedCertificate.java  
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jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/address/DynamicAddressConnectHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/address/package-info.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/PseudoRandomFunction.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/SslMasterKeyHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/BouncyCastlePemReader.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/Conscrypt.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java  
\*

/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java  
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/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java  
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\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslProtocols.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/Ciphers.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/IPPacket.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/UDPPacket.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/TCPpacket.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/package-info.java  
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jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java

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\*

/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/flow/package-info.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemValue.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java  
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/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedFile.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedInput.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/package-info.java  
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```
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
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```
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
*
/opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
```

jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/SslUtils.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ipfilter/package-info.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslEngine.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/JdkSslServerContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslServerContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslServerSessionContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslClientContext.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/SslContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/Java7SslParametersUtils.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ipfilter/UniqueIpFilter.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/LazyX509Certificate.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/JdkSslEngine.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/SslProvider.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSsl.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemReader.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SniHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/OpenSslSessionStats.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/JettyNpnSslEngine.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/StacklessSSLHandshakeException.java

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jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/traffic/package-info.java

\*

/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/traffic/TrafficCounter.java

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jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/SslContextBuilder.java

\*

/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/ClientAuth.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/ApplicationProtocolNames.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java  
\*

/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java

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* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
*
/opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
*
/opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
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*/opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/flow/FlowControlHandler.java
```

## 1.968 netty-transport-classes-epoll

### 4.1.94.Final

#### 1.968.1 Available under license :

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jar/META-INF/native-image/io.netty/netty-transport-classes-epoll/native-image.properties
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*/
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
```

```
*/
/**
 * Set the {@code TCP_QUICKACK} option on the socket.
 * See TCP\_QUICKACK
 * for more details.
*/
```

Found in path(s):

```
*/opt/cola/permits/1735715951_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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```
*/
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
```

```
*/
```

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```
*/opt/cola/permits/1735715951_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java  
\*  
/opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java  
\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java  
\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/package-info.java  
\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java  
\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java  
\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java  
\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java  
\*  
/opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java  
\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java  
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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java

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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/SegmentedDatagramPacket.java

\*

/opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java

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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java

\*

/opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java

\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java

\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollMode.java

\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java

\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java

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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java

\*

/opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java



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* /opt/cola/permits/1735715951_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-
jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/cola/permits/1735715951_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-
jar/io/netty/channel/epoll/TcpMd5Util.java
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/bootstrap/FailedChannel.java

\*

/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/internal/package-info.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java

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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/PendingBytesTracker.java

\*

/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java

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jar/io/netty/channel/EventLoopTaskQueueFactory.java
*/opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/ExtendedClosedChannelException.java
*/
/opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
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jar/io/netty/channel/StacklessClosedChannelException.java
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jar/io/netty/channel/PendingWriteQueue.java
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jar/io/netty/channel/AbstractEventLoop.java
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jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/ReflectiveChannelFactory.java
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jar/io/netty/channel/pool/FixedChannelPool.java
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jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
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jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
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jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/pool/SimpleChannelPool.java
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jar/io/netty/channel/pool/package-info.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/pool/ChannelPool.java
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jar/io/netty/channel/pool/ChannelPoolMap.java
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jar/io/netty/channel/pool/ChannelHealthChecker.java
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\* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in

```

* its { @link ChannelPipeline }.
*
* <h3>Sub-types</h3>
* <p>
* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
subtypes:
* <ul>
* <li>{ @link
ChannelInboundHandler } to handle inbound I/O events, and</li>
* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>
* <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>
* <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }
* object. A { @link ChannelHandler } is supposed to interact with the
* { @link ChannelPipeline } it belongs to via a context object. Using the
* context object, the { @link ChannelHandler } can pass events upstream or
* downstream, modify the pipeline dynamically,
* or store the information
* (using { @link AttributeKey }s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A { @link ChannelHandler } often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler }&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     { @code @Override }

```

```

* public void channelRead0({ @link ChannelHandlerContext} ctx, Message message) {
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) message);
*         <b>loggedIn = true;</b>
*     } else (message instanceof GetDataMessage) {
*         if (<b>loggedIn</b>) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*         } else {
*             fail();
*         }
*     }
* }
* }
* ...
* }
* </pre>

```

\* Because the handler instance has a state variable which is dedicated to
 \* one connection, you have to create a new handler instance for each new
 \* channel to avoid a race condition where an unauthenticated client can get
 \* the confidential information:

```

* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;&gt;{ @link Channel}&gt; {
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
* }
* </pre>

```

\* <h4>Using { @link AttributeKey}s</h4>

\* Although it's recommended to use member variables to store the state of a
 \* handler, for some reason you might not want to create many handler instances.
 \* In such a case, you can use { @link AttributeKey}s which is provided by
 \* { @link ChannelHandlerContext}:

```

* <pre>
* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;&gt;Message&gt; {
*     private final { @link AttributeKey}&lt;&gt;{ @link Boolean}&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
* }
* }

```

```

*   { @code @Override }
*   public void channelRead({ @link ChannelHandlerContext } ctx, Message message) {
*       { @link Attribute } &lt; & { @link Boolean } &gt; attr = ctx.attr(auth);
*       if (message instanceof LoginMessage) {
*           authenticate((LoginMessage) o);
*           <b>attr.set(true)</b>;
*       } else (message instanceof GetDataMessage) {
*           if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*               ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*           } else {
*               fail();
*           }
*       }
*   }
* }
* ...
* }
* </pre>

```

Now that the state of the handler is attached to the { @link ChannelHandlerContext }, you can add the same handler instance to different pipelines:

```

* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer } &lt; & { @link Channel } &gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override }
*     public void initChannel({ @link Channel } channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>

```

<h4>The { @code @Sharable } annotation</h4>

<p>In the example above which used an { @link AttributeKey }, you might have noticed the { @code @Sharable } annotation.

<p>If a { @link ChannelHandler } is annotated with the { @code @Sharable } annotation, it means you can create an instance of the handler just once and add it to one or more { @link ChannelPipeline }s multiple times without a race condition.

<p>If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

<p>



```
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler}, and
* { @link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/
```

Found in path(s):

```
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/ChannelHandler.java
```

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```
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jar/io/netty/channel/SelectStrategyFactory.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ChannelInboundInvoker.java  
\*  
/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/bootstrap/BootstrapConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/group/VoidChannelGroupFuture.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/PreferHeapByteBufAllocator.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/socket/DuplexChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/SelectStrategy.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/DefaultSelectStrategyFactory.java  
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jar/io/netty/channel/DefaultSelectStrategy.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/bootstrap/ServerBootstrapConfig.java  
\*  
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jar/io/netty/channel/WriteBufferWaterMark.java  
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jar/io/netty/bootstrap/AbstractBootstrapConfig.java  
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- \*
- /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
- \* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java
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- \* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
- \* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/AddressedEnvelope.java
- \* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/DefaultChannelId.java
- \* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/group/ChannelGroup.java
- \* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelId.java
- \*
- /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/group/ChannelMatcher.java
- \* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
- \* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
- \* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
- \* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
- \* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
- \* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
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- \* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
- \* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java

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* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/ChannelProgressiveFuture.java
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jar/io/netty/channel/ChannelProgressiveFutureListener.java
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/opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
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jar/io/netty/channel/local/LocalServerChannel.java

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jar/io/netty/channel/local/LocalChannelRegistry.java

\*

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jar/io/netty/channel/FileRegion.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ChannelDuplexHandler.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java

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jar/io/netty/channel/DefaultChannelPipeline.java  
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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/oio/package-info.java  
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jar/io/netty/channel/ChannelMetadata.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/package-info.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/nio/NioEventLoop.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/socket/SocketChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ChannelPromise.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/oio/OioEventLoopGroup.java  
\*  
/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/group/CombinedIterator.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ChannelException.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ChannelFutureListener.java  
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jar/io/netty/channel/socket/package-info.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ChannelFlushPromiseNotifier.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/AbstractChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/socket/ServerSocketChannel.java  
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jar/io/netty/channel/nio/NioTask.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java  
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jar/io/netty/channel/ChannelConfig.java  
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jar/io/netty/channel/MultithreadEventLoopGroup.java

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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/package-info.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/CompleteChannelFuture.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelFuture.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelPipeline.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java  
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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/group/package-info.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelHandlerContext.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/Channel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/AbstractServerChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/FixedRecvByteBufferAllocator.java  
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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/local/LocalChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/local/package-info.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/DatagramPacket.java  
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jar/io/netty/bootstrap/AbstractBootstrap.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/socket/oio/OioServerSocketChannel.java  
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jar/io/netty/channel/FailedChannelFuture.java  
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jar/io/netty/channel/EventLoopException.java  
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jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/ReferenceCounted.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/DefaultProgressivePromise.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ConcurrentSet.java  
\*  
/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/ImmediateEventExecutor.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/RecyclableArrayList.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/DefaultFutureListeners.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/DefaultThreadFactory.java  
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/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/Version.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/Promise.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/PromiseTask.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/Future.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/Recycler.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/ReferenceCountUtil.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-

jar/io/netty/util/internal/ReadOnlyIterator.java  
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/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/ScheduledFuture.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/DefaultPromise.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/ConstantPool.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/PlatformDependent0.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/PendingWrite.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/EmptyArrays.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/ThreadPoolExecutor.java  
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/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
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jar/io/netty/util/internal/logging/package-info.java  
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jar/io/netty/util/ResourceLeak.java  
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jar/io/netty/util/ResourceLeakDetector.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/AbstractFuture.java  
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/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
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jar/io/netty/util/internal/AppendableCharSequence.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/ProgressivePromise.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/ProgressiveFuture.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/ResourceLeakException.java



\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java

\*

/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/FutureListener.java

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/CleanerJava6.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/FastThreadLocalThread.java

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-

jar/io/netty/util/concurrent/SingleThreadEventExecutor.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/EventExecutor.java  
\*  
/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/StringUtil.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/FailedFuture.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/DefaultAttributeMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java  
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jar/io/netty/util/internal/logging/CommonsLoggerFactory.java  
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jar/io/netty/util/concurrent/SucceededFuture.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/logging/JdkLoggerFactory.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/logging/Slf4JLogger.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/package-info.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/Attribute.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/Timeout.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/Timer.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/TimerTask.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/Constant.java  
\*  
/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/BlockingOperationException.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/AttributeKey.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/IllegalReferenceCountException.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/DefaultEventExecutor.java  
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* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
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* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
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* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
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* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
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jar/io/netty/util/HashedWheelTimer.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/Signal.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/SystemPropertyUtil.java
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/NetUtilSubstitutions.java

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/DomainWildcardMappingBuilder.java

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/CommonsLogger.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/InternalLogger.java

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/AsyncMapping.java

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/HashingStrategy.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java

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  <description>Java Concurrency Tools Core Library</description>
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  </dependencies>
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    </plugins>
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  </instructions>
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      <additionalOption>-Xdoclint:none</additionalOption>
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</plugins>
</build>

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<distributionManagement>
  <repository>

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<name>jctools-jctools</name>
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</repository>
</distributionManagement>
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<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>
```

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<license>
<name>Apache
License, Version 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
<distribution>repo</distribution>
</license>
</licenses>
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<scm>
<url>https://github.com/JCTools/JCTools</url>
<connection>scm:git:https://github.com/JCTools/JCTools</connection>
<tag>HEAD</tag>
</scm>
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<developers>
<developer>
<url>https://github.com/nitsanw</url>
</developer>
<developer>
<url>https://github.com/mjpt777</url>
</developer>
<developer>
<url>https://github.com/RichardWarburton</url>
</developer>
<developer>
<url>https://github.com/kay</url>
</developer>
<developer>
<url>https://github.com/franz1981</url>
</developer>
</developers>
```

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<prerequisites>
<maven>3.5.0</maven>
</prerequisites>
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<properties>
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
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<java.test.version>1.8</java.test.version>

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<maven.compiler.target>${java.version}</maven.compiler.target>
<maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
<maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

<hamcrest.version>1.3</hamcrest.version>
<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
```

#### Found

in path(s):

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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Found in path(s):

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/FastThreadLocal.java

\*

/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/ResourceLeakHint.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/NativeLibraryLoader.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/AsciiString.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/PromiseNotifier.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/Mapping.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/ThreadDeathWatcher.java  
\*

/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/IntegerHolder.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/DomainNameMapping.java

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCGrowAtomicArrayQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseLinkedQueue.java  
\*

/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedArrayQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCArrayQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMapLong.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashSet.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/SpscLinkedQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscGrowableArrayQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscCompoundQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
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/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/SpmcArrayQueue.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/LinkedQueueNode.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java  
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/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-



/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingSetInt.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java  
\*

/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/LinkedQueueAtomicNode.java  
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Found in path(s):

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/META-INF/native-image/io.netty/netty-common/native-image.properties  
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io.netty.util.internal.Hidden$NettyBlockHoundIntegration
```

Found in path(s):

```
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/META-
INF/services/reactor.blockhound.integration.BlockHoundIntegration
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* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/ThreadLocalRandom.java
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/ByteCollections.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/LongObjectMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/LongCollections.java  
\*  
/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/ShortObjectHashMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/CharObjectMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/ObjectUtil.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/CharCollections.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/IntObjectHashMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/LongObjectHashMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/IntCollections.java  
\*  
/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/IntObjectMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/ShortCollections.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/ShortObjectMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/ByteObjectHashMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/ByteObjectMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/CharObjectHashMap.java

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```
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/logging/MessageFormatter.java
*
```



/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/FormattingTuple.java

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jar/io/netty/util/internal/ResourcesUtil.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
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jar/io/netty/util/internal/LongAdderCounter.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/PriorityQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/ReflectionUtil.java  
\*  
/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/EmptyPriorityQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-

jar/io/netty/util/SuppressForbidden.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ObjectCleaner.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/NettyRuntime.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/FastThreadLocalRunnable.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/Cleaner.java

# 1.971 metrics 4.2.19

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## 1.973 google-gnostic-models 0.6.8

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# 1.981 toml 1.3.2

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## 1.983 pflag 1.0.5

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## 1.987 opencontainers-image-spec 1.1.0-rc4

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# 1.988 bouncy-castle 1.75

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## 1.1006 drop-wizard-metrics 2.1.7

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# 1.1008 metrics-jvm 4.2.19

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# 1.1010 metrics-jetty 4.2.19

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.jetty9

Build-Jdk-Spec: 11

Bundle-Description: A set of extensions for Jetty 9.3 and higher which provide instrumentation of thread pools, connector metrics, and application latency and utilization.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration for Jetty 9.3 and higher

Bundle-SymbolicName: io.dropwizard.metrics.jetty9

Bundle-Version: 4.2.19

Created-By: Apache Maven Bundle Plugin 5.1.9

Export-Package: com.codahale.metrics.jetty9;uses:="com.codahale.metrics,com.codahale.metrics.annotation,javax.servlet,javax.servlet.http,org.eclipse.jetty.io,org.eclipse.jetty.server,org.eclipse.jetty.server.handler,org.eclipse.jetty.util.annotation,org.eclipse.jetty.util.component,org.eclipse.jetty.util.thread";version="4.2.19"

Implementation-Title: Metrics Integration for Jetty 9.3 and higher

Implementation-Version: 4.2.19

Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.ht



tp;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.2,5)",com  
.codahale.metrics.annotation;version="[4.2,5)",org.eclipse.jetty.http  
;version="[9.4,10)",org.eclipse.jetty.io;version="[9.4,10)",org.eclip  
se.jetty.server;version="[9.4,10)",org.eclipse.jetty.server.handler;v  
ersion="[9.4,10)",org.eclipse.jetty.util.annotation;version="[9.4,10)  
",org.eclipse.jetty.util.component;version="[9.4,10)",org.eclipse.jet  
ty.util.thread;version="[9.4,10)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-6.3.1.202206071316

Found in path(s):

\* /opt/cola/permits/1750760659\_1690280984.1164134/0/metrics-jetty9-4-2-19-jar/META-INF/MANIFEST.MF

# 1.1011 metrics-logback 4.2.19

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.logback

Build-Jdk-Spec: 11

Bundle-Description: An instrumented appender for Logback.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration for Logback

Bundle-SymbolicName: io.dropwizard.metrics.logback

Bundle-Version: 4.2.19

Created-By: Apache Maven Bundle Plugin 5.1.9

Export-Package: com.codahale.metrics.logback;uses:="ch.qos.logback.classic.spi,ch.qos.logback.core,com.codahale.metrics";version="4.2.19"

Implementation-Title: Metrics Integration for Logback

Implementation-Version: 4.2.19

Import-Package: ch.qos.logback.classic;version="[1.2,2)",ch.qos.logback.classic.spi;version="[1.2,2)",ch.qos.logback.core;version="[1.2,2)",com.codahale.metrics;version="[4.2,5)"

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Found in path(s):

\*

/opt/cola/permits/1750760511\_1690280987.966312/0/metrics-logback-4-2-19-jar/META-INF/MANIFEST.MF

# 1.1012 metrics-jersey2 4.2.19

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Manifest-Version: 1.0  
Automatic-Module-Name: com.codahale.metrics.jersey2  
Build-Jdk-Spec: 11  
Bundle-Description: A set of class providing Metrics integration for Jersey, the reference JAX-RS implementation.  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Metrics Integration for Jersey 2.x  
Bundle-SymbolicName: io.dropwizard.metrics.jersey2  
Bundle-Version: 4.2.19  
Created-By: Apache Maven Bundle Plugin 5.1.9  
Export-Package: com.codahale.metrics.jersey2;uses:="com.codahale.metrics.javax.ws.rs.core.javax.ws.rs.ext,org.glassfish.jersey.server.model,org.glassfish.jersey.server.monitoring";version="4.2.19"  
Implementation-Title: Metrics Integration for Jersey 2.x  
Implementation-Version: 4.2.19  
Import-Package: com.codahale.metrics;version="[4.2,5)",com.codahale.metrics.annotation;version="[4.2,5)",javax.ws.rs.core;version="[2.1,3)",javax.ws.rs.ext;version="[2.1,3)",org.glassfish.jersey.server;version="[2.39,3)",org.glassfish.jersey.server.model;version="[2.39,3)",org.glassfish.jersey.server.monitoring;version="[2.39,3)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-6.3.1.202206071316

Found in path(s):

\* /opt/cola/permits/1750760630\_1690280989.7830713/0/metrics-jersey2-4-2-19-jar/META-INF/MANIFEST.MF

## 1.1013 metrics-caffeine 4.2.19

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Found in path(s):

\* /opt/cola/permits/1754271858\_1690525899.9397342/0/metrics-caffeine-4-2-19-sources-jar/com/codahale/metrics/caffeine/MetricsStatsCounter.java

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## 1.1017 dropwizard-client 2.1.7

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# 1.1019 amqp-client 5.17.0

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Manifest-Version: 1.0

Bundle-Description: The RabbitMQ Java client library allows Java applications to interface with RabbitMQ.

Implementation-Title: RabbitMQ Java Client

Automatic-Module-Name: com.rabbitmq.client

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>, <https://www.gnu.org/licenses/gpl-2.0.txt>, <https://www.mozilla.org/en-US/MPL/2.0/>

Bundle-SymbolicName: com.rabbitmq.client

Implementation-Version: 5.17.0

Bnd-LastModified: 1679415883917

Bundle-ManifestVersion: 2

Specification-Vendor: AMQP Working Group ([www.amqp.org](http://www.amqp.org))

Specification-Title: AMQP

Bundle-DocURL: <https://www.rabbitmq.com>

Bundle-Vendor: VMware, Inc. or its affiliates.

Import-Package: com.codahale.metrics;version="[4.2,5)";resolution:=optional,com.fasterxml.jackson.core;version="[2.14,3)";resolution:=optional,com.fasterxml.jackson.databind;version="[2.14,3)";resolution:=optional,com.fasterxml.jackson.databind.node;version="[2.14,3)";resolution:=optional,com.rabbitmq.client,com.rabbitmq.client.impl,com.rabbitmq.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabbitmq.tools.json,com.rabbitmq.utility,io.micrometer.core.instrument;resolution:=optional,io.opentelemetry.api;resolution:=optional,io.opentelemetry.api.common;resolution:=optional,io.opentelemetry.api.metrics;resolution:=optional,javax.naming,javax.naming.directory,javax.net,javax.net.ssl,javax.security.auth.callback,javax.security.auth.x500,javax.security.sasl,org.slf4j;version="[1.7,2)"

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Implementation-Vendor: VMware, Inc. or its affiliates.

Export-Package: com.rabbitmq.client;uses:="com.rabbitmq.client.impl,com.rabbitmq.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabbitmq.utility,javax.net,javax.net.ssl";version="5.17.0",com.rabbitmq.client.impl;uses:="com.codahale.metrics,com.rabbitmq.client,com.rabbitmq.client.impl.recovery,com.rabbitmq.utility,io.micrometer.core.instrument,io.opentelemetry.api,io.opentelemetry.api.common,javax.net,javax.net.ssl";version="5.17.0",com.rabbitmq.client.impl.nio;uses:="com.rabbitmq.client,com.rabbitmq.client.impl,javax.net.ssl";version="5.17.0",com.rabbitmq.client.impl.recovery;uses:="com.rabbitmq.client,com.rabbitmq.client.impl";version="5.17.0",com.rabbitmq.tools;version="5.17.0",com.rabbitmq.tools.json;version="5.17.0",com.rabbitmq.tools.json

rpc;uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.databind,  
com.rabbitmq.client";version="5.17.0",com.rabbitmq.utility;version="5  
.17.0"  
Bundle-Name: RabbitMQ Java Client  
Bundle-Version: 5.17.0  
Build-Jdk-Spec: 1.8  
Created-By: Apache Maven Bundle Plugin 5.1.8  
Implementation-URL: <https://www.rabbitmq.com>  
Specification-Version: 0.9.1

Found in path(s):

\* /opt/cola/permits/1758004428\_1690997396.0997193/0/amqp-client-5-17-0-jar/META-INF/MANIFEST.MF  
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/1758004428\_1690997396.0997193/0/amqp-client-5-17-0-  
jar/com/rabbitmq/client/impl/AMQConnection.class: binary file matches  
/opt/cola/permits/1758004428\_1690997396.0997193/0/amqp-client-5-17-0-  
jar/com/rabbitmq/client/impl/Copyright.class: binary file matches

Found in path(s):

\* /bin/grep

# 1.1020 metrics-graphite 4.2.19

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Manifest-Version: 1.0  
Automatic-Module-Name: com.codahale.metrics.graphite  
Build-Jdk-Spec: 11  
Bundle-Description: A reporter for Metrics which announces measurement  
s to a Graphite server.  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Graphite Integration for Metrics  
Bundle-SymbolicName: io.dropwizard.metrics.graphite  
Bundle-Version: 4.2.19  
Created-By: Apache Maven Bundle Plugin 5.1.9  
Export-Package: com.codahale.metrics.graphite;uses:="com.codahale.metr  
ics,com.rabbitmq.client,javax.net";version="4.2.19"  
Implementation-Title: Graphite Integration for Metrics  
Implementation-Version: 4.2.19  
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics  
;version="[4.2,5)",com.rabbitmq.client;version="[5.17,6)",javax.net  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-6.3.1.202206071316

Found in path(s):

\* /opt/cola/permits/1758004481\_1690997391.3641589/0/metrics-graphite-4-2-19-jar/META-INF/MANIFEST.MF

# 1.1021 dropwizard-metrics-graphite 2.1.7

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## 1.1023 mobile-cnat-golang-lib-go-diameter

### 4.0.6-0.20230802184116-1192ff7e0992

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#

# Use the following command to generate the list

#

# git shortlog -se | awk '{print \$2 " " \$3 " " \$4}'

#

# and do appropriate cleanups.

DanB <danb@cgrates.org>

David Wilkie <dwilkie@gmail.com>

Seyi Ogunyemi <micrypt@users.noreply.github.com>

Tapio <fitase@emblacom.com>

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# 1.1024 genproto-googleapis-rpc 0.0.0-20230525234030-28d5490b6b19

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# 1.1027 kube-openapi 0.0.0-20221012153701-172d655c2280

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
```

```
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```

package spec

```
import "testing"
```

```
func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url\n"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}
```

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## 1.1038 goprotobuf 1.5.3

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\* by Eric Young (eay@cryptsoft.com).

\* The implementation was written so as to conform with Netscapes SSL.

\*

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jar/appleMain/okio/ApplePosixVariant.kt

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\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/internal/RealBufferedSource.kt

\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/internal/SegmentedByteString.kt

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\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha512.kt

\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha256.kt

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/opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Md5.kt

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\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/CommonPlatform.kt

\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/internal/Utf8.kt

\*

/opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/NonJvmPlatform.kt

\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/internal/ByteString.kt

\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/ByteString.kt

\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Util.kt

\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/appleMain/okio/ByteString.kt

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- \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Buffer.kt
- \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Sink.kt
- \*
- /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Okio.kt
- \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/BufferedSource.kt
- \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/RealBufferedSink.kt
- \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Source.kt
- \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/Sink.kt
- \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Timeout.kt
- \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/internal/Buffer.kt
- \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/BufferedSink.kt
- \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/RealBufferedSource.kt
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- \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/BufferedSource.kt
- \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/Buffer.kt

# 1.1044 elfutils 0.176-1.1ubuntu0.1

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```

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```
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it
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```

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```
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```

```
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Ty Coon, President of Vice
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# 1.1047 tomcat-dbc 9.0.80

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# 1.1050 tomcat-util-scan 9.0.80

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# 1.1054 zookeeper-jute 3.8.2

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* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/META-INF/maven/org.apache.zookeeper/zookeeper-jute/pom.xml
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jar/org/apache/jute/compiler/generated/ParseException.java  
\*

/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/jute/compiler/generated/TokenMgrError.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/jute/compiler/generated/RccConstants.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/jute/compiler/generated/rcc.jj

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/jute/compiler/generated/Rcc.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/jute/compiler/generated/RccTokenManager.java

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jar/org/apache/jute/compiler/generated/Token.java

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jar/org/apache/jute/compiler/generated/SimpleCharStream.java

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/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JType.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JavaGenerator.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JFloat.java

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\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JFile.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/InputArchive.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/RecordWriter.java  
\*  
/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/Index.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/ToStringOutputArchive.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JRecord.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JByte.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JString.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/Record.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JMap.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/Utils.java  
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/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/RecordReader.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JLong.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JBuffer.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/CSharpGenerator.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JField.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/BinaryOutputArchive.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/BinaryInputArchive.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JCompType.java  
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/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/CGenerator.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/CppGenerator.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JDouble.java

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jar/org/apache/zookeeper/txn/SetDataTxn.java

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/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/data/StatPersisted.java

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jar/org/apache/zookeeper/proto/GetSASLRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/ReconfigRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/TxnHeader.java

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jar/org/apache/zookeeper/proto/CreateResponse.java

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jar/org/apache/zookeeper/proto/GetACLRequest.java

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jar/org/apache/zookeeper/proto/GetChildren2Request.java

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jar/org/apache/zookeeper/proto/SyncRequest.java

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/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/data/ACL.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/CheckWatchesRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/ExistsRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/SetSASLRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/MultiTxn.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-

jar/org/apache/zookeeper/txn/SetACLTxn.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/SetWatches.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/Txn.java  
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/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/GetACLResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/ReplyHeader.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/SetACLResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/CloseSessionTxn.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/server/quorum/LearnerInfo.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/ErrorTxn.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/CreateTTLTxn.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/DeleteTxn.java  
\*  
/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/data/ClientInfo.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/SetSASLResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/CreateTxnV0.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/data/Id.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/ExistsResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/GetChildrenResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/WatcherEvent.java  
\*  
/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/SetMaxChildrenTxn.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/WhoAmIResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/SetMaxChildrenRequest.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/Create2Response.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/AuthPacket.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/ConnectResponse.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/data/Stat.java

\*

/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetChildren2Response.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/ErrorResponse.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/QuorumAuthPacket.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/CreateTTLRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/RemoveWatchesRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetAllChildrenNumberResponse.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/SetDataRequest.java

\*

/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/CreateContainerTxn.java

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\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/CreateSessionTxn.java

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\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/CheckVersionRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/CheckVersionTxn.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetMaxChildrenRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetEphemeralsResponse.java

\*

/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/ConnectRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/TxnDigest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/AddWatchRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetDataResponse.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-

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jar/org/apache/zookeeper/proto/SetACLRequest.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
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* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/CreateRequest.java
*
/opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/SetDataResponse.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/server/quorum/QuorumPacket.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/GetAllChildrenNumberRequest.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/MultiHeader.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/GetDataRequest.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/SyncResponse.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/DeleteRequest.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/server/persistence/FileHeader.java
*
/opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/RequestHeader.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/GetEphemeralsRequest.java
```

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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/EphemeralTypeEmulate353.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/EphemeralType.java

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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/Transaction.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/watch/WatchesPathReport.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/watch/WatchesReport.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/watch/WatchesSummary.java  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/MultiOperationRecord.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/OpResult.java  
\*  
/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/ZooKeeperServerConf.java  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/metrics/Counter.java  
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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/quorum/QuorumStats.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/persistence/SnapShot.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/util/SecurityUtils.java  
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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/DigestWatcher.java  
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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/quorum/ObserverMXBean.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/ExitCode.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/NIOServerCnxnFactory.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/ClientCnxnSocketNIO.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/quorum/QuorumZooKeeperServer.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/quorum/flexible/QuorumOracleMaj.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/common/IOUtils.java  
\*  
/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/quorum/auth/SaslQuorumAuthServer.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/auth/KeyAuthenticationProvider.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/watch/WatcherCleaner.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/watch/WatchManagerOptimized.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/common/KeyStoreLoader.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/util/BitHashSet.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/ClientWatchManager.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/client/ZKClientConfig.java



```

*
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/Shell.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/ServerCnxnFactory.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/watch/IDeadWatcherListener.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/cli/CliCommand.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/quorum/ObserverRequestProcessor.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/common/ZKConfig.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/metric/AvgMinMaxPercentileCounterSet.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/metrics/CounterSet.java
*
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/cli/GetCommand.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/ServerStats.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/AddWatchMode.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/common/KeyStoreFileType.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/NettyServerCnxn.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/common/X509Exception.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/SaslClientCallbackHandler.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/metric/AvgMinMaxCounterSet.java
*
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/auth/AuthenticationProvider.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/quorum/FollowerBean.java
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/TxnLogEntry.java  
\*  
/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/embedded/ZooKeeperServerEmbedded.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/common/BCFKSFileLoader.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/watch/WatcherMode.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/controller/CommandClient.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/controller/ControlCommand.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/SnapshotComparer.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/controller/ControllableConnectionFactory.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/watch/PathParentIterator.java  
\*  
/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/embedded/ExitHandler.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/util/CircularBlockingQueue.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/controller/ControllerServerConfig.java  
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jar/org/apache/zookeeper/server/quorum/MultipleAddresses.java  
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jar/org/apache/zookeeper/server/Request.java

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jar/org/apache/zookeeper/cli/SyncCommand.java

\*

/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/GetAllChildrenNumberCommand.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/VersionCommand.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/GetAclCommand.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/GetEphemeralsCommand.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/LsCommand.java

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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/embedded/ZooKeeperServerEmbeddedImpl.java

## 1.1056 golang 1.19.13

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## 1.1057 mergo 0.3.6

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```
import: ../../../../fossene/db/schema/thing.yml
```

fields:

```
site: string
author: root
```

# 1.1058 cyphar-filepath-securejoin 0.2.4

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
```

```

Name string `json:"name,omitempty"`
URL string `json:"url,omitempty"`
}
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url\n"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

```

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## 1.1063 kubernetes-api 0.28.2

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# 1.1064 kubernetes-apimachinery 0.28.2

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## 1.1070 netty-transport-native-epoll

### 4.1.94.Final

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# 1.1071 gopkg.in-yaml 2.4.0

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# 1.1072 containerd 1.7.6

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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localtime.go, localtime\_test.go:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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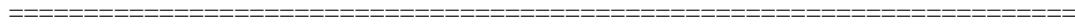
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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# 1.1075 sql-migrate 1.5.2

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  
\*  
\* Linux driver for the IDT77201 NICStAR PCI ATM controller.  
\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  
\* see init\_nicstar() for PHY initialization to change this. This driver  
\* expects the Linux ATM stack to support scatter-gather  
lists  
\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  
\*  
\* Implementing minimal-copy of received data:  
\* IDT always receives data into a small buffer, then large buffers  
\* as needed. This means that data must always be copied to create  
\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
\* Fix is simple: make large buffers large enough to hold entire  
\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then  
\* copy small buffer contents to head of large buffer.  
\* Trick is to avoid fragmenting Linux, due to need for a lot of large  
\* buffers. This is done by 2 things:  
\* 1) skb->destructor / skb->atm.recycle\_buffer  
\* combined, allow nicstar\_free\_rx\_skb to be called to  
\* recycle large data buffers  
\* 2) skb\_clone of received buffers  
\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
\* details.  
\*  
\*  
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\* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/



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## alpha.5.0.20230414071934-94593e63d45c

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Found in path(s):

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* /opt/cola/permits/1814554562_1696951012.4391515/0/raft-40-zip/raft/util.go
* /opt/cola/permits/1814554562_1696951012.4391515/0/raft-40-zip/raft/log.go
* /opt/cola/permits/1814554562_1696951012.4391515/0/raft-40-zip/raft/log_unstable_test.go
* /opt/cola/permits/1814554562_1696951012.4391515/0/raft-40-zip/raft/node_test.go
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* /opt/cola/permits/1814554562_1696951012.4391515/0/raft-40-zip/raft/raft_test.go
* /opt/cola/permits/1814554562_1696951012.4391515/0/raft-40-zip/raft/storage.go
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# 1.1084 kotlin 1.9.10

## 1.1084.1 Available under license :

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```
{ "version":3,"file":"kotlin.js","sources":["wrapper.js","js/arrayUtils.js","js/callableReferenceUtils.js","js/conversions.js","js/core.js","js/long.js","js/markerFunctions.js","js/misc.js","js/polyfills.js","js/rtti.js","runtime/arrayUtils.kt","runtime/Enum.kt","primitiveCompanionObjects.kt","common/src/generated/_Arrays.kt","common/src/generated/_Ranges.kt","unsigned/src/kotlin/UByte.kt","unsigned/src/kotlin/UInt.kt","unsigned/src/kotlin/UShort.kt","src/kotlin/collections/Collections.kt","src/kotlin/collections/Maps.kt","src/kotlin/collections/Sets.kt","src/kotlin/ranges/PrimitiveRanges.kt","src/kotlin/text/HexExtensions.kt","src/kotlin/text/StringNumberConversions.kt","src/kotlin/time/Duration.kt","unsigned/src/kotlin/UnsignedUtils.kt","../core/builtins/src/kotlin/internal/InternalAnnotations.kt","src/kotlin/collections/Iterables.kt","src/kotlin/collections/Sequences.kt","src/kotlin/util/Preconditions.kt","js/src/generated/_ArraysJs.kt","src/kotlin/comparisons/Comparisons.kt","src/kotlin/util/Standard.kt","js/src/generated/_ComparisonsJs.kt","unsigned/src/kotlin/ULong.kt","common/src/generated/_Collections.kt","js/src/kotlin/collections.kt","src/kotlin/collections/Iterators.kt","common/src/generated/_Comparisons.kt","common/src/generated/_Maps.kt","common/src/generated/_OneToManyTitlecaseMappings.kt","js/src/kotlin/text/char.kt","js/src/kotlin/text/string.kt","src/kotlin/text/Char.kt","src/kotlin/CharCode.kt","common/src/generated/_Sequences.kt","common/src/generated/_Sets.kt","common/src/generated/_Strings.kt","src/kotlin/text/Strings.kt","unsigned/src/kotlin/UByteArray.kt","unsigned/src/kotlin/UIntArray.kt","unsigned/src/kotlin/ULongArray.kt","unsigned/src/kotlin/UShortArray.kt","common/src/generated/_UArrays.kt","common/src/generated/_UCollections.kt","common/src/generated/_UComparisons.kt","common/src/generated/_URanges.kt","common/src/generated/_USequences.kt","common/src/kotlin/ExceptionsH.kt","common/src/kotlin/JsAnnotationsH.kt","common/src/kotlin/ioH.kt","builtin-sources/Collections.kt","builtin-sources/Unit.kt","builtin-sources/annotation/Annotations.kt","src/kotlin/builtins.kt","src/kotlin/jsTypeOf.kt","src/kotlin/kotlin.kt","src/kotlin/CharCode_js-v1.kt","src/kotlin/coroutines/CoroutineImpl.kt","src/kotlin/util/Result.kt","src/kotlin/coroutines/Continuation.kt","src/kotlin/coroutines/intrinsics/IntrinsicsJs.kt","src/kotlin/currentBeMisc.kt","src/kotlin/exceptions.kt","src/kotlin/jsOperators.kt","src/kotlin/math_js-v1.kt","src/kotlin/numbers_js-v1.kt","src/kotlin/reflection_js-v1.kt","src/kotlin/text/numberConversions_js-v1.kt","js/src/kotlin/js.arrays/fill.kt","js/src/kotlin/js.arrays/sort.kt","js/src/generated/_CharCategories.kt","js/src/generated/_CollectionsJs.kt","js/src/generated/_DigitChars.kt","js/src/generated/_LetterChars.kt","js/src/generated/_OtherLowercaseChars.kt","js/src/generated/_OtherUppercaseChars.kt","js/src/generated/_StringsJs.kt","js/src/generated/_TitlecaseMappings.kt","js/src/generated/_UArraysJs.kt","js/src/generated/_WhitespaceChars.kt","js/src/kotlin/AutoCloseableJs.kt","js/src/kotlin/Comparator.kt","js/src/kotlin/ItemArrayLike.kt","js/src/kotlin/annotations.kt","js/src/kotlin/annotationsJVM.kt","js/src/kotlin/collections/AbstractMutableCollection.kt","js/src/kotlin/collections/AbstractMutableList.kt","js/src/kotlin/collections/AbstractMutableMap.kt","js/src/kotlin/collections/AbstractMutableSet.kt","js/src/kotlin/collections/ArrayList.kt","js/src/kotlin/collections/ArraySorting.kt","js/src/kotlin/collections/ArraysJs.kt","js/src/kotlin/collections/EqualityComparator.kt","js/src/kotlin/collections/HashMap.kt","js/src/kotlin/collections/HashSet.kt","js/src/kotlin/collections/InternalHashCodeMap.kt","js/src/kotlin/collections/InternalMap.kt","js/src/kotlin/collections/InternalStringMap.kt","js/src/kotlin/collections/LinkedHashMap.kt","js/src/kotlin/collections/LinkedHashSet.kt","js/src/kotlin/concurrent.kt","js/src/kotlin/console.kt","js/src/kotlin/coroutines/SafeContinuationJs.kt","js/src/kotlin/coroutines/cancellation/CancellationException.kt","js/src/kotlin/coroutines/js/internal/EmptyContinuation.kt","js/src/kotlin/date.kt","js/src/kotlin/dom/Builders.kt","js/src/kotlin/dom/Classes.kt","js/src/kotlin/dom/Dom.kt","js/src/kotlin/dom/Mutations.kt","js/src/kotlin/dynamic.kt","js/src/kotlin/enums/EnumEntriesSerializationProxy.kt",
```

"js/src/kotlin/exceptionUtils.kt", "js/src/kotlin/grouping.kt", "src/kotlin/collections/Grouping.kt", "js/src/kotlin/internal/Annotations.kt", "js/src/kotlin/io/encoding/Base64Js.kt", "js/src/kotlin/json.kt", "js/src/kotlin/math.kt", "js/src/kotlin/numbers.kt", "js/src/kotlin/promise.kt", "js/src/kotlin/random/PlatformRandom.kt", "js/src/kotlin/reflect/AssociatedObjects.kt", "js/src/kotlin/reflect/JsClass.kt", "js/src/kotlin/reflect/KClassImpl.kt", "js/src/kotlin/reflect/KClassesImpl.kt", "js/src/kotlin/reflect/KTypeHelpers.kt", "js/src/kotlin/reflect/KTypeImpl.kt", "js/src/kotlin/reflect/KTypeParameterImpl.kt", "js/src/kotlin/reflect/primitives.kt", "js/src/kotlin/reflect/reflection.kt", "js/src/kotlin/regexp.kt", "js/src/kotlin/sequence.kt", "js/src/kotlin/text/CharCategoryJS.kt", "js/src/kotlin/text/CharacterCodingExceptionJs.kt", "js/src/kotlin/text/StringBuilderJs.kt", "js/src/kotlin/text/numberConversions.kt", "js/src/kotlin/text/regex.kt", "src/kotlin/text/StringBuilder.kt", "js/src/kotlin/text/stringsCode.kt", "js/src/kotlin/text/utf8Encoding.kt", "js/src/kotlin/throwableExtensions.kt", "js/src/kotlin/time/DurationJs.kt", "js/src/kotlin/time/DurationUnit.kt", "js/src/kotlin/time/MonoTimeSource.kt", "js/src/kotlinx/dom/Builders.kt", "js/src/kotlinx/dom/Classes.kt", "src/kotlin/text/regex/RegexExtensions.kt", "js/src/kotlinx/dom/Dom.kt", "js/src/kotlinx/dom/Mutations.kt", "js/src/org.w3c/EventListener.kt", "js/src/org.w3c/deprecated.kt", "js/src/org.w3c/org.khronos.webgl.kt", "js/src/org.w3c/org.w3c.dom.clipboard.kt", "js/src/org.w3c/org.w3c.dom.css.kt", "js/src/org.w3c/org.w3c.dom.encryptedmedia.kt", "js/src/org.w3c/org.w3c.dom.events.kt", "js/src/org.w3c/org.w3c.dom.kt", "js/src/org.w3c/org.w3c.fetch.kt", "js/src/org.w3c/org.w3c.dom.mediacapture.kt", "js/src/org.w3c/org.w3c.dom.mediasource.kt", "js/src/org.w3c/org.w3c.dom.pointerevents.kt", "js/src/org.w3c/org.w3c.dom.svg.kt", "js/src/org.w3c/org.w3c.files.kt", "js/src/org.w3c/org.w3c.notifications.kt", "js/src/org.w3c/org.w3c.workers.kt", "js/src/org.w3c/org.w3c.xhr.kt", "src/kotlin/annotations/ExperimentalStdlibApi.kt", "src/kotlin/annotations/Inference.kt", "src/kotlin/annotations/Multiplatform.kt", "src/kotlin/annotations/OptIn.kt", "src/kotlin/annotations/WasExperimental.kt", "src/kotlin/collections/AbstractCollection.kt", "src/kotlin/collections/AbstractIterator.kt", "src/kotlin/collections/AbstractList.kt", "src/kotlin/collections/AbstractMap.kt", "src/kotlin/collections/AbstractSet.kt", "src/kotlin/collections/ArrayDeque.kt", "src/kotlin/collections/Arrays.kt", "src/kotlin/collections/IndexedValue.kt", "src/kotlin/collections/MapAccessors.kt", "src/kotlin/collections/MapWithDefault.kt", "src/kotlin/collections/MutableCollections.kt", "src/kotlin/collections/PrimitiveIterators.kt", "src/kotlin/collections/ReversedViews.kt", "src/kotlin/collections/SequenceBuilder.kt", "src/kotlin/collections/SlidingWindow.kt", "src/kotlin/collections/UArraySorting.kt", "src/kotlin/comparisons/compareTo.kt", "src/kotlin/contracts/ContractBuilder.kt", "src/kotlin/coroutines/ContinuationInterceptor.kt", "src/kotlin/coroutines/CoroutineContext.kt", "src/kotlin/coroutines/CoroutineContextImpl.kt", "src/kotlin/coroutines/intrinsics/Intrinsics.kt", "src/kotlin/enums/EnumEntries.kt", "src/kotlin/experimental/ExperimentalObjCName.kt", "src/kotlin/experimental/ExperimentalObjCRefinement.kt", "src/kotlin/experimental/bitwiseOperations.kt", "src/kotlin/experimental/inferenceMarker.kt", "src/kotlin/internal/Annotations.kt", "src/kotlin/internal/progressionUtil.kt", "src/kotlin/io/encoding/Base64.kt", "src/kotlin/io/encoding/ExperimentalEncodingApi.kt", "src/kotlin/properties/Delegates.kt", "src/kotlin/properties/Interfaces.kt", "src/kotlin/properties/ObservableProperty.kt", "src/kotlin/properties/PropertyReferenceDelegates.kt", "src/kotlin/random/Random.kt", "src/kotlin/random/URandom.kt", "src/kotlin/random/XorWowRandom.kt", "src/kotlin/ranges/ProgressionIterators.kt", "src/kotlin/ranges/Progressions.kt", "src/kotlin/ranges/Range.kt", "src/kotlin/ranges/Ranges.kt", "src/kotlin/reflect/KClasses.kt", "src/kotlin/reflect/KTypeProjection.kt", "src/kotlin/reflect/KVariance.kt", "src/kotlin/reflect/typeof.kt", "src/kotlin/text/Appendable.kt", "src/kotlin/text/HexFormat.kt", "src/kotlin/text/Indent.kt", "src/kotlin/text/Typography.kt", "src/kotlin/text/UHexExtensions.kt", "src/kotlin/text/regex/MatchResult.kt", "src/kotlin/time/DurationUnit.kt", "src/kotlin/time/ExperimentalTime.kt", "src/kotlin/time/TimeSource.kt", "src/kotlin/time/TimeSources.kt", "src/kotlin/util/Lazy.kt", "src/kotlin/time/longSaturatedMath.kt", "src/kotlin/time/measureTime.kt", "src/kotlin/util/DeepRecursive.kt", "src/kotlin/util/FloorDivMod.kt", "src/kotlin/util/HashCode.kt", "src/kotlin/util/KotlinVersion.kt", "src/kotlin/util/Lateinit.kt", "src/kotlin/util/Numbers.kt", "src/kotlin/util/Suspend.kt", "src/kotlin/util/Tuples.kt", "unsigned/src/kotlin/UIIntRange.kt", "unsigned/src/kotlin/ULongRange.kt", "unsigned/src/kotlin/UMath.kt", "unsigned/src/kotlin/UNumbers.kt", "unsigned/src/kotlin/UProgressionUtil.kt", "unsigned/src/kotlin/UStrings.kt", "unsigned/src/kotlin/annotations/Unsigned.kt", "common/src/kotlin/MathH.kt", "js/src/kotlin/js/js.math.kt"], "sourcesContent": ["(function (root, factory) {\n if (typeof define === 'function' && define.amd) {\n define('kotlin', ['exports'], factory);\n }\n else if (typeof exports === 'object') {\n factory(module.exports);\n }\n else {\n root.kotlin = {};\n }\n factory(root.kotlin);\n})(this, function (Kotlin) {\n var \_ = Kotlin;\n \n insertContent();\n});\n", /\*\n \*

```
Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.isArray = function (a) {\n  return (Array.isArray(a) || a instanceof
Int8Array) && a.$type$ === \"BooleanArray\"\n};\n\nKotlin.isArray = function (a) {\n  return a instanceof
Int8Array && a.$type$ === \"BooleanArray\"\n};\n\nKotlin.isArray = function (a) {\n  return a instanceof
Int16Array\n};\n\nKotlin.isArray = function (a) {\n  return a instanceof Uint16Array && a.$type$ ===
\"CharArray\"\n};\n\nKotlin.isArray = function (a) {\n  return a instanceof
Int32Array\n};\n\nKotlin.isArray = function (a) {\n  return a instanceof
Float32Array\n};\n\nKotlin.isArray = function (a) {\n  return a instanceof
Float64Array\n};\n\nKotlin.isArray = function (a) {\n  return Array.isArray(a) && a.$type$ ===
\"LongArray\"\n};\n\nKotlin.isArray = function (a) {\n  return Array.isArray(a) &&
!a.$type$;\n};\n\nKotlin.isArrayish = function (a) {\n  return Array.isArray(a) ||
ArrayBuffer.isView(a)\n};\n\nKotlin.arrayToString = function (a) {\n  if (a === null) return \"null\"\n  var
toString = Kotlin.isArray(a) ? String.fromCharCode : Kotlin.toString;\n  return \"[\" +
Array.prototype.map.call(a, function(e) { return toString(e); }).join(\", \") + \"]\"\n};\n\nKotlin.arrayDeepToString
= function (arr) {\n  return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\n};\n\nKotlin.arrayEquals =
function (a, b) {\n  if (a === b) {\n    return true;\n  }\n  if (a === null || b === null || !Kotlin.isArrayish(b) ||
a.length !== b.length) {\n    return false;\n  }\n  for (var i = 0, n = a.length; i < n; i++) {\n    if
(!Kotlin.equals(a[i], b[i])) {\n      return false;\n    }\n  }\n  return true;\n};\n\nKotlin.arrayDeepEquals =
function (a, b) {\n  return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);\n};\n\nKotlin.arrayHashCode
= function (arr) {\n  if (arr === null) return 0\n  var result = 1;\n  for (var i = 0, n = arr.length; i < n; i++) {\n
result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) | 0;\n  }\n  return result;\n};\n\nKotlin.arrayDeepHashCode =
function (arr) {\n  return
Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);\n};\n\nKotlin.primitiveArraySort = function (array) {\n
array.sort(Kotlin.doubleCompareTo)\n};\n\n\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.getCallableRef = function(name, f) {\n  f.callableName = name;\n  return
f;\n};\n\nKotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {\n  getter.get = getter;\n
getter.set = setter;\n  getter.callableName = name;\n  return getPropertyRefClass(getter, setter,
propertyRefClassMetadataCache[paramCount]);\n};\n\nfunction
getPropertyRefClass(obj, setter, cache) {\n  obj.$metadata$ = getPropertyRefMetadata(typeof setter ===
\"function\" ? cache.mutable : cache.immutable);\n  obj.constructor = obj;\n  return obj;\n}\n\nvar
propertyRefClassMetadataCache = [\n  {\n    mutable: { value: null, implementedInterface: function () {\n
return Kotlin.kotlin.reflect.KMutableProperty0 }\n    },\n    immutable: { value: null, implementedInterface:
function () {\n    return Kotlin.kotlin.reflect.KProperty0 }\n    }\n  },\n  {\n    mutable: { value: null,
implementedInterface: function () {\n    return Kotlin.kotlin.reflect.KMutableProperty1 }\n    },\n
immutable: { value: null, implementedInterface: function () {\n    return Kotlin.kotlin.reflect.KProperty1 }\n
  }\n  }\n];\n\nfunction getPropertyRefMetadata(cache) {\n  if (cache.value === null) {\n    cache.value = {\n
interfaces: [cache.implementedInterface()],\n
    baseClass: null,\n
    functions: {},\n
    properties: {},\n
    types: {},\n
    staticMembers:
{} }\n  }\n  return cache.value;\n}\n\n\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\nKotlin.toShort = function (a) {\n  return (a & 0xFFFF) << 16 >>
16;\n};\n\nKotlin.toByte = function (a) {\n  return (a & 0xFF) << 24 >> 24;\n};\n\nKotlin.toChar = function (a) {\n
return a & 0xFFFF;\n};\n\nKotlin.numberToLong = function (a) {\n  return a instanceof Kotlin.Long ? a :
Kotlin.Long.fromNumber(a);\n};\n\nKotlin.numberToInt = function (a) {\n  return a instanceof Kotlin.Long ?
a.toInt() : Kotlin.doubleToInt(a);\n};\n\nKotlin.numberToShort = function (a) {\n  return
Kotlin.toShort(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToByte = function
```

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(a) {\n  return Kotlin.toByte(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToDouble = function (a) {\n  return
+a;\n};\n\nKotlin.numberToChar = function (a) {\n  return
Kotlin.toChar(Kotlin.numberToInt(a));\n};\n\nKotlin.doubleToInt = function(a) {\n  if (a > 2147483647) return
2147483647;\n  if (a < -2147483648) return -2147483648;\n  return a | 0;\n};\n\nKotlin.toBoxedChar = function
(a) {\n  if (a == null) return a;\n  if (a instanceof Kotlin.BoxedChar) return a;\n  return new
Kotlin.BoxedChar(a);\n};\n\nKotlin.unboxChar = function(a) {\n  if (a == null) return a;\n  return
Kotlin.toChar(a);\n};\n"}\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\nKotlin.equals = function (obj1, obj2) {\n  if (obj1 == null) {\n    return obj2 ==
null;\n  }\n  if (obj2 == null) {\n    return false;\n  }\n  if (obj1 !== obj2) {\n    return obj2 !== obj2;\n  }\n  if (typeof obj1 === "object" && typeof
obj1.equals === "function") {\n    return obj1.equals(obj2);\n  }\n  if (typeof obj1 === "number" &&
typeof obj2 === "number") {\n    return obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2);\n  }\n  return
obj1 === obj2;\n};\n\nKotlin.hashCode = function (obj) {\n  if (obj == null) {\n    return 0;\n  }\n  var objType
= typeof obj;\n  if ("object" === objType) {\n    return "function" === typeof obj.hashCode ? obj.hashCode() :
getObjectHashCode(obj);\n  }\n  if ("function" === objType) {\n    return getObjectHashCode(obj);\n  }\n  if ("number" === objType) {\n    return Kotlin.numberHashCode(obj);\n  }\n  if ("boolean" === objType)
{\n    return Number(obj);\n  }\n  var str = String(obj);\n  return
getStringHashCode(str);\n};\n\nKotlin.toString = function (o) {\n  if (o
== null) {\n    return "null";\n  }\n  else if (Kotlin.isArrayish(o)) {\n    return "[...]";\n  }\n  else {\n
return o.toString();\n  }\n};\n\n** @const *\nvar POW_2_32 = 4294967296;\n// TODO: consider switching to
Symbol type once we are on ES6.\n** @const *\nvar OBJECT_HASH_CODE_PROPERTY_NAME =
"KotlinHashCodeValue$";\n\nfunction getObjectHashCode(obj) {\n  if
(! (OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {\n    var hash = (Math.random() * POW_2_32) | 0; //
Make 32-bit signed integer.\n    Object.defineProperty(obj, OBJECT_HASH_CODE_PROPERTY_NAME, {
value: hash, enumerable: false });\n  }\n  return
obj[OBJECT_HASH_CODE_PROPERTY_NAME];\n}\n\nfunction getStringHashCode(str) {\n  var hash = 0;\n  for (var i = 0; i < str.length; i++) {\n    var code = str.charCodeAt(i);\n    hash = (hash * 31 + code) | 0; // Keep
it 32-bit.\n  }\n  return hash;\n}\n\nKotlin.identityHashCode = getObjectHashCode;\n"}\n * Copyright 2010-
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http://www.apache.org/licenses/LICENSE-2.0\n\n// Unless required by applicable law or agreed to in writing,
software\n\n// distributed under the License is distributed on an "AS-IS" BASIS,\n\n// WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied.\n\n**\n * Constructs a 64-bit two's-complement integer,
given its low and high 32-bit\n * values as *signed* integers. See the from* functions below for more\n *
convenient ways of constructing Longs.\n * \n * The internal representation of a long is the two given signed,
32-bit values.\n * We use 32-bit pieces because these are the size of integers on which\n * Javascript performs bit-
operations. For operations like addition and\n * multiplication, we split each number into 16-bit pieces, which can
easily be\n * multiplied within Javascript's floating-point representation without overflow\n * or change in sign.\n
*\n * In the algorithms below, we frequently reduce the negative case to the\n * positive case by negating the
input(s) and then post-processing the result.\n * Note that we must ALWAYS check specially whether those values
are MIN_VALUE\n * (-2^63) because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented as\n * a
positive number, it overflows back into a negative). Not handling this\n * case would often result in infinite
recursion.\n * \n * @param {number} low The low (signed) 32 bits of the long.\n * @param {number} high The
high (signed) 32 bits of the long.\n * @constructor\n * @final\n *\n\nKotlin.Long = function(low, high) {\n

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/**\n * @type {number}\n * @private\n */\n this.low_ = low | 0; // force into 32 signed bits.\n\n /**\n * @type {number}\n * @private\n */\n this.high_ = high | 0; // force into 32 signed bits.\n};\n\nKotlin.Long.$metadata$ = {\n  kind: \"class\",\n  simpleName: \"Long\",\n  interfaces: []\n};\n\n\n// NOTE: Common constant values ZERO, ONE, NEG_ONE, etc. are defined below the\n// from* methods on which they depend.\n\n\n/**\n * A cache of the Long representations of small integer values.\n * @type {!Object}\n * @private\n */\nKotlin.Long.IntCache_ = {};\n\n\n/**\n * Returns a Long representing the given (32-bit) integer value.\n * @param {number} value The 32-bit integer in question.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromInt = function(value) {\n  if (-128 <= value && value < 128) {\n    var cachedObj = Kotlin.Long.IntCache_[value];\n    if (cachedObj) {\n      return cachedObj;\n    }\n    var obj = new Kotlin.Long(\n      | 0, value < 0 ? -1 : 0);\n    if (-128 <= value && value < 128) {\n      Kotlin.Long.IntCache_[value] = obj;\n    }\n    return obj;\n  };\n\n\n/**\n * Converts this number value to `Long`.\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`,\n * `Long.MAX_VALUE` if it's bigger than `Long.MAX_VALUE`.\n * @param {number} value The number in question.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromNumber = function(value) {\n  if (isNaN(value)) {\n    return Kotlin.Long.ZERO;\n  } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {\n    return Kotlin.Long.MIN_VALUE;\n  } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {\n    return Kotlin.Long.MAX_VALUE;\n  } else if (value < 0) {\n    return Kotlin.Long.fromNumber(-value).negate();\n  } else {\n    return new Kotlin.Long(\n      (value % Kotlin.Long.TWO_PWR_32_DBL_) | 0,\n      (value / Kotlin.Long.TWO_PWR_32_DBL_) | 0);\n  };\n};\n\n\n/**\n * Returns a Long representing the 64-bit integer that comes by concatenating\n * the given high and low bits. Each is assumed to use 32 bits.\n * @param {number} lowBits The low 32-bits.\n * @param {number} highBits The high 32-bits.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromBits = function(lowBits, highBits) {\n  return new Kotlin.Long(lowBits, highBits);\n};\n\n\n/**\n * Returns a Long representation of the given string, written using the given\n * radix.\n * @param {string} str The textual representation of the Long.\n * @param {number=} opt_radix The radix in which the text is written.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromString = function(str, opt_radix) {\n  if (str.length == 0) {\n    throw Error('number format error: empty string');\n  }\n\n  var radix = opt_radix || 10;\n  if (radix < 2 || 36 < radix) {\n    throw Error('radix out of range: ' + radix);\n  }\n\n  if (str.charAt(0) == '-') {\n    return Kotlin.Long.fromString(str.substring(1), radix).negate();\n  } else if (str.indexOf('-') >= 0) {\n    throw Error('number format error: interior \"-\" character: ' + str);\n  }\n\n  // Do several (8) digits each time through the loop, so as to\n  // minimize the calls to the very expensive emulated div.\n  var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 8));\n  var result = Kotlin.Long.ZERO;\n  for (var i = 0; i < str.length; i += 8) {\n    var size = Math.min(8, str.length - i);\n    var value = parseInt(str.substring(i, i + size), radix);\n    if (size < 8) {\n      var power = Kotlin.Long.fromNumber(Math.pow(radix, size));\n      result = result.multiply(power).add(Kotlin.Long.fromNumber(value));\n    } else {\n      result = result.multiply(radixToPower);\n      result = result.add(Kotlin.Long.fromNumber(value));\n    }\n  }\n  return result;\n};\n\n\n// NOTE: the compiler should inline these constant values below and then remove\n// these variables, so there should be no runtime penalty for these.\n\n\n\n/**\n * Number used repeated below in calculations. This must appear before the\n * first call to any from* function below.\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;\n\n\n/**\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\n\n\n\n/**\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_32_DBL_ =\n  Kotlin.Long.TWO_PWR_16_DBL_ * Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n\n/**\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_16_DBL_;\n\n\n\n/**\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_31_DBL_ =\n  Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\n\n\n/**\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_48_DBL_ =\n  Kotlin.Long.TWO_PWR_32_DBL_ * Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n\n/**\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_64_DBL_ =\n  Kotlin.Long.TWO_PWR_32_DBL_ *

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Kotlin.Long.TWO_PWR_32_DBL_;\n\n\n/**\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_63_DBL_ =\n Kotlin.Long.TWO_PWR_64_DBL_ / 2;\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.NEG_ONE = Kotlin.Long.fromInt(-1);\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.MAX_VALUE =\n Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\n\n\n\n/**\n * @type {!Kotlin.Long}\n * @private\n */\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1 << 24);\n\n\n\n/**\n * @return {number} The value, assuming it is a 32-bit integer.\n */\nKotlin.Long.prototype.toInt = function() {\n return this.low_;\n};\n\n\n\n/**\n * @return {number} The closest floating-point representation to this value.\n */\nKotlin.Long.prototype.toNumber = function() {\n return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +\n this.getLowBitsUnsigned();\n};\n\n\n\n/**\n * @return {number} The 32-bit hashCode of this value.\n */\nKotlin.Long.prototype.hashCode = function() {\n return this.high_ ^ this.low_;\n};\n\n\n\n/**\n * @param {number=} opt_radix The radix in which the text should be written.\n * @return {string} The textual representation of this value.\n * @override\n */\nKotlin.Long.prototype.toString = function(opt_radix) {\n var radix = opt_radix || 10;\n if (radix < 2 || 36 < radix) {\n throw Error('radix out of range: ' + radix);\n }\n\n if (this.isZero()) {\n return '0';\n }\n\n if (this.isNegative()) {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n // We need to change the Long value before it can be negated, so we remove\n // the bottom-most digit in this base and then recurse to do the rest.\n var radixLong = Kotlin.Long.fromNumber(radix);\n var div = this.div(radixLong);\n var rem = div.multiply(radixLong).subtract(this);\n return div.toString(radix) + rem.toInt().toString(radix);\n } else {\n return '-' + this.negate().toString(radix);\n }\n }\n\n // Do several (5) digits each time through the loop, so as to\n // minimize the calls to the very expensive emulated div.\n var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 5));\n\n var rem = this;\n var result = '';\n while (true) {\n var remDiv = rem.div(radixToPower);\n var intval = rem.subtract(remDiv.multiply(radixToPower)).toInt();\n var digits = intval.toString(radix);\n rem = remDiv;\n if (rem.isZero()) {\n return digits + result;\n } else {\n while (digits.length < 5) {\n digits = '0' + digits;\n }\n result = " + digits + result;\n }\n }\n};\n\n\n\n/**\n * @return {number} The high 32-bits as a signed value.\n */\nKotlin.Long.prototype.getHighBits = function() {\n return this.high_;\n};\n\n\n\n/**\n * @return {number} The low 32-bits as a signed value.\n */\nKotlin.Long.prototype.getLowBits = function() {\n return this.low_;\n};\n\n\n\n/**\n * @return {number} The low 32-bits as an unsigned value.\n */\nKotlin.Long.prototype.getLowBitsUnsigned = function() {\n return (this.low_ >= 0) ? this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;\n};\n\n\n\n/**\n * @return {number} Returns the number of bits needed to represent the absolute\n * value of this Long.\n */\nKotlin.Long.prototype.getNumBitsAbs = function() {\n if (this.isNegative()) {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return 64;\n } else {\n return this.negate().getNumBitsAbs();\n }\n } else {\n var val = this.high_ != 0 ? this.high_ : this.low_;\n for (var bit = 31; bit > 0; bit--) {\n if ((val & (1 << bit)) != 0) {\n break;\n }\n }\n return this.high_ != 0 ? bit + 33 : bit + 1;\n }\n};\n\n\n\n/**\n * @return {boolean} Whether this value is zero.\n */\nKotlin.Long.prototype.isZero = function() {\n return this.high_ == 0 && this.low_ == 0;\n};\n\n\n\n/**\n * @return {boolean} Whether this value is negative.\n */\nKotlin.Long.prototype.isNegative = function() {\n return this.high_ < 0;\n};\n\n\n\n/**\n * @return {boolean} Whether this value is odd.\n */\nKotlin.Long.prototype.isOdd = function() {\n return (this.low_ & 1) == 1;\n};\n\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long equals the other.\n */\nKotlin.Long.prototype.equalsLong = function(other) {\n return (this.high_ == other.high_) && (this.low_ == other.low_);\n};\n\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long does not equal the other.\n */\nKotlin.Long.prototype.notEqualsLong = function(other) {\n return (this.high_ != other.high_) || (this.low_ != other.low_);\n};\n\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than the other.\n */\nKotlin.Long.prototype.lessThan = function(other) {\n return this.compare(other) < 0;\n};\n\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return

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{boolean} Whether
this Long is less than or equal to the other.\n */\nKotlin.Long.prototype.lessThanOrEqual = function(other) {\n
return this.compare(other) <= 0;\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n *
@return {boolean} Whether this Long is greater than the other.\n */\nKotlin.Long.prototype.greaterThan =
function(other) {\n return this.compare(other) > 0;\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare
against.\n * @return {boolean} Whether this Long is greater than or equal to the other.\n
*/\nKotlin.Long.prototype.greaterThanOrEqual = function(other) {\n return this.compare(other) >=
0;\n};\n\n/**\n * Compares this Long with the given one.\n * @param {Kotlin.Long} other Long to compare
against.\n * @return {number} 0 if they are the same, 1 if the this is greater, and -1\n * if the given one is
greater.\n */\nKotlin.Long.prototype.compare = function(other) {\n if (this.equalsLong(other)) {\n return 0;\n
}\n\n var thisNeg = this.isNegative();\n
var otherNeg = other.isNegative();\n if (thisNeg && !otherNeg) {\n return -1;\n }\n if (!thisNeg && otherNeg)
{\n return 1;\n }\n\n // at this point, the signs are the same, so subtraction will not overflow\n if
(this.subtract(other).isNegative()) {\n return -1;\n } else {\n return 1;\n }\n};\n\n/**\n * @return {!Kotlin.Long}
The negation of this value.
*/\nKotlin.Long.prototype.negate = function() {\n if
(this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.MIN_VALUE;\n } else {\n return
this.not().add(Kotlin.Long.ONE);\n }\n};\n\n/**\n * Returns the sum of this and the given Long.\n * @param
{Kotlin.Long} other Long to add to this one.\n * @return {!Kotlin.Long} The sum of this and the given Long.\n
*/\nKotlin.Long.prototype.add = function(other) {\n // Divide each number into 4 chunks of 16 bits, and then sum
the chunks.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 = this.low_ >>> 16;\n
var a00 = this.low_
& 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ & 0xFFFF;\n var b16 = other.low_ >>>
16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\n c00 += a00 + b00;\n c16 +=
c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 + b16;\n c32 += c16 >>> 16;\n c16 &= 0xFFFF;\n c32 += a32 +
b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 + b48;\n c48 &= 0xFFFF;\n return
Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n/**\n * Returns the difference of this and the
given Long.\n * @param {Kotlin.Long} other Long to subtract from this.\n * @return {!Kotlin.Long} The
difference of this and the given Long.\n */\nKotlin.Long.prototype.subtract = function(other) {\n return
this.add(other.negate());\n};\n\n/**\n * Returns the product of this and the given long.\n * @param {Kotlin.Long}
other Long to multiply with this.\n * @return {!Kotlin.Long} The product of this and the other.\n
*/\nKotlin.Long.prototype.multiply
= function(other) {\n if (this.isZero()) {\n return Kotlin.Long.ZERO;\n } else if (other.isZero()) {\n return
Kotlin.Long.ZERO;\n }\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return other.isOdd() ?
Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n
return this.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n if
(other.isNegative()) {\n return this.negate().multiply(other.negate());\n } else {\n return
this.negate().multiply(other.negate());\n }\n } else if (other.isNegative()) {\n return
this.multiply(other.negate()).negate();\n }\n\n // If both longs are small, use float multiplication\n if
(this.lessThan(Kotlin.Long.TWO_PWR_24_) && other.lessThan(Kotlin.Long.TWO_PWR_24_)) {\n return
Kotlin.Long.fromNumber(this.toNumber() * other.toNumber());\n }\n\n // Divide each long into 4 chunks of 16
bits, and then add up 4x4 products.\n // We
can skip products that would overflow.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var
a16 = this.low_ >>> 16;\n var a00 = this.low_ & 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 =
other.high_ & 0xFFFF;\n var b16 = other.low_ >>> 16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 =
0, c16 = 0, c00 = 0;\n c00 += a00 * b00;\n c16 += c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 * b00;\n c32 +=
c16 >>> 16;\n c16 &= 0xFFFF;\n c16 += a00 * b16;\n c32 += c16 >>> 16;\n c16 &= 0xFFFF;\n c32 += a32 *
b00;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c32 += a16 * b16;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n
c32 += a00 * b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 * b00 + a32 * b16 + a16 * b32 + a00 *

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b48;\n c48 &= 0xFFFF;\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n\n\n\n *
Returns this Long divided by the given one.\n * @param {Kotlin.Long} other Long by which to divide.\n * @return
{!Kotlin.Long}
This Long divided by the given one.\n */\nKotlin.Long.prototype.div = function(other) {\n if (other.isZero()) {\n
throw Error('division by zero');\n } else if (this.isZero()) {\n return Kotlin.Long.ZERO;\n }\n\n if
(this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n if (other.equalsLong(Kotlin.Long.ONE) ||\n
other.equalsLong(Kotlin.Long.NEG_ONE)) {\n return Kotlin.Long.MIN_VALUE; // recall that -MIN_VALUE
== MIN_VALUE\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.ONE;\n
} else {\n // At this point, we have |other| >= 2, so |this/other| < |MIN_VALUE|.\n var halfThis =
this.shiftRight(1);\n var approx = halfThis.div(other).shiftLeft(1);\n if
(approx.equalsLong(Kotlin.Long.ZERO)) {\n return other.isNegative() ? Kotlin.Long.ONE :
Kotlin.Long.NEG_ONE;\n } else {\n var rem = this.subtract(other.multiply(approx));\n var result =
approx.add(rem.div(other));\n return result;\n
}\n }\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.ZERO;\n }\n\n if
(this.isNegative()) {\n if (other.isNegative()) {\n return this.negate().div(other.negate());\n } else {\n return
this.negate().div(other).negate();\n }\n } else if (other.isNegative()) {\n return
this.div(other.negate()).negate();\n }\n\n // Repeat the following until the remainder is less than other: find a\n //
floating-point that approximates remainder / other *from below*, add this\n // into the result, and subtract it from
the remainder. It is critical that\n // the approximate value is less than or equal to the real value so that the\n //
remainder never becomes negative.\n var res = Kotlin.Long.ZERO;\n var rem = this;\n while
(rem.greaterThanOrEqualTo(other)) {\n // Approximate the result of division. This may be a little greater or\n //
smaller than the actual value.\n var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));\n\n
// We will tweak the approximate result by changing it in the 48-th digit or\n // the smallest non-fractional digit,
whichever is larger.\n var log2 = Math.ceil(Math.log(approx) / Math.LN2);\n var delta = (log2 <= 48) ? 1 :
Math.pow(2, log2 - 48);\n // Decrease the approximation until it is smaller than the remainder. Note\n // that if
it is too large, the product overflows and is negative.\n var approxRes = Kotlin.Long.fromNumber(approx);\n
var approxRem = approxRes.multiply(other);\n while (approxRem.isNegative() || approxRem.greaterThan(rem))
{\n approx -= delta;\n approxRes = Kotlin.Long.fromNumber(approx);\n approxRem =
approxRes.multiply(other);\n }\n\n // We know the answer can't be zero... and actually, zero would cause\n //
infinite recursion since we would make no progress.\n if (approxRes.isZero()) {\n approxRes =
Kotlin.Long.ONE;\n }\n\n res = res.add(approxRes);\n rem = rem.subtract(approxRem);\n
}\n return res;\n};\n\n\n\n\n * Returns this Long modulo the given one.\n * @param {Kotlin.Long} other Long
by which to mod.\n * @return {!Kotlin.Long} This Long modulo the given one.\n
*/\nKotlin.Long.prototype.modulo = function(other) {\n return
this.subtract(this.div(other).multiply(other));\n};\n\n\n\n\n * @return {!Kotlin.Long} The bitwise-NOT of this value.
*/\nKotlin.Long.prototype.not = function() {\n return Kotlin.Long.fromBits(~this.low_, ~this.high_);\n};\n\n\n\n\n *
Returns the bitwise-AND of this Long and the given one.\n * @param {Kotlin.Long} other The Long with which
to AND.\n * @return {!Kotlin.Long} The bitwise-AND of this and the other.\n */\nKotlin.Long.prototype.and =
function(other) {\n return Kotlin.Long.fromBits(this.low_ & other.low_,\n
this.high_ &
other.high_);\n};\n\n\n\n\n * Returns the bitwise-OR of this Long and the given one.\n * @param {Kotlin.Long}
other The Long with which to OR.\n * @return {!Kotlin.Long}
The bitwise-OR of this and the other.\n */\nKotlin.Long.prototype.or = function(other) {\n return
Kotlin.Long.fromBits(this.low_ | other.low_,\n
this.high_ | other.high_);\n};\n\n\n\n\n *
Returns the bitwise-XOR of this Long and the given one.\n * @param {Kotlin.Long} other The Long with which to
XOR.\n * @return {!Kotlin.Long} The bitwise-XOR of this and the other.\n */\nKotlin.Long.prototype.xor =
function(other) {\n return Kotlin.Long.fromBits(this.low_ ^ other.low_,\n
this.high_ ^
other.high_);\n};\n\n\n\n\n * Returns this Long with bits shifted to the left by the given amount.\n * @param
{number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the left by the

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given amount.\n */\nKotlin.Long.prototype.shiftLeft = function(numBits) {\n  numBits &= 63;\n  if (numBits == 0)\n  {\n    return this;\n  } else {\n    var low = this.low_;\n    if (numBits < 32) {\n      var high\n      = this.high_;\n      return Kotlin.Long.fromBits(\n        low << numBits,\n        (high << numBits) | (low >>> (32 -\n        numBits));\n    } else {\n      return Kotlin.Long.fromBits(0, low << (numBits - 32));\n    }\n  }\n};\n\n/**\n * Returns this Long with bits shifted to the right by the given amount.\n * @param {number} numBits The number of\n * bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount.\n */\nKotlin.Long.prototype.shiftRight = function(numBits) {\n  numBits &= 63;\n  if (numBits == 0) {\n    return\n    this;\n  } else {\n    var high = this.high_;\n    if (numBits < 32) {\n      var low = this.low_;\n      return\n      Kotlin.Long.fromBits(\n        (low >>> numBits) | (high << (32 - numBits)),\n        high >> numBits);\n    } else\n    {\n      return Kotlin.Long.fromBits(\n        high >> (numBits - 32),\n        high >= 0 ? 0 : -1);\n    }\n  }\n};\n\n/**\n * Returns this Long with bits shifted to the right by the given amount,\n * with\n * zeros placed into the new leading bits.\n * @param {number} numBits The number of bits by which to\n * shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount, with\n * zeros placed into the\n * new leading bits.\n */\nKotlin.Long.prototype.shiftRightUnsigned = function(numBits) {\n  numBits &= 63;\n  if\n  (numBits == 0) {\n    return this;\n  } else {\n    var high = this.high_;\n    if (numBits < 32) {\n      var low =\n      this.low_;\n      return Kotlin.Long.fromBits(\n        (low >>> numBits) | (high << (32 - numBits)),\n        high\n        >>> numBits);\n    } else if (numBits == 32) {\n      return Kotlin.Long.fromBits(high, 0);\n    } else {\n      return\n      Kotlin.Long.fromBits(high >>> (numBits - 32), 0);\n    }\n  }\n};\n\n// Support for\nKotlin\nKotlin.Long.prototype.equals = function (other) {\n  return other instanceof Kotlin.Long &&\n  this.equalsLong(other);\n};\n\nKotlin.Long.prototype.compareTo_11rb$ =\nKotlin.Long.prototype.compareTo;\n\nKotlin.Long.prototype.inc\n= function() {\n  return this.add(Kotlin.Long.ONE);\n};\n\nKotlin.Long.prototype.dec = function() {\n  return\n  this.add(Kotlin.Long.NEG_ONE);\n};\n\nKotlin.Long.prototype.valueOf = function() {\n  return\n  this.toNumber();\n};\n\nKotlin.Long.prototype.unaryPlus = function() {\n  return\n  this;\n};\n\nKotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;\nKotlin.Long.prototype.inv =\nKotlin.Long.prototype.not;\n\nKotlin.Long.prototype.rangeTo = function (other) {\n  return new\n  Kotlin.kotlin.ranges.LongRange(this, other);\n};\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin\n * Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be\n * found in the license/LICENSE.txt file.\n */\n\n/**\n * @param {string} id\n * @param {Object} declaration\n */\nKotlin.defineModule = function (id, declaration) {\n};\n\nKotlin.defineInlineFunction = function(tag, fun) {\n  return fun;\n};\n\nKotlin.wrapFunction = function(fun)\n{\n  var f = function() {\n    f = fun();\n    return f.apply(this, arguments);\n  }; \n  return function() {\n    return f.apply(this, arguments);\n  }; \n};\n\nKotlin.isTypeOf = function(type) {\n  return function (object) {\n    return\n    typeof object === type;\n  };\n};\n\nKotlin.isInstanceOf = function (klass) {\n  return function (object) {\n    return\n    Kotlin.isType(object, klass);\n  };\n};\n\nKotlin.orNull = function (fn) {\n  return function (object) {\n    return\n    object == null || fn(object);\n  };\n};\n\nKotlin.andPredicate = function (a, b) {\n  return function (object)\n  {\n    return a(object) && b(object);\n  };\n};\n\nKotlin.kotlinModuleMetadata = function (abiVersion,\nmodule\nName, data) {\n};\n\nKotlin.suspendCall = function(value) {\n  return value;\n};\n\nKotlin.coroutineResult\n= function(qualifier) {\n  throwMarkerError();\n};\n\nKotlin.coroutineController = function(qualifier) {\n  throw\n  MarkerError();\n};\n\nKotlin.coroutineReceiver\n= function(qualifier) {\n  throwMarkerError();\n};\n\nKotlin.setCoroutineResult = function(value, qualifier) {\n  throw\n  MarkerError();\n};\n\nKotlin.getReifiedTypeParameterKType = function(typeParameter) {\n  throw\n  MarkerError();\n};\n\nfunction throwMarkerError() {\n  throw new Error(\n  "\n  \"This marker function\n  should never been called. \"\n  +\n  "\n  \"Looks like compiler did not eliminate it properly. \"\n  +\n  "\n  \"Please, report\n  an issue if you caught this exception.\");\n}\n\nKotlin.getFunctionById = function(id, default\nValue) {\n  return\n  function() {\n    return default\n    Value;\n  };\n};\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin\n * Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be\n * found in the license/LICENSE.txt file.\n */\n\nKotlin.compareTo = function (a, b) {\n  var typeA =\n  typeof a;\n  if

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Math.exp(x);\n        var y1 = 1 / y;\n        if (!isFinite(y) || !isFinite(y1)) return Math.exp(Math.abs(x) -
Math.LN2);\n        return (y + y1) / 2;\n    });\n    }\n\n    if (typeof Math.tanh === \"undefined\") {\nMath.tanh = function(x){\n        if (Math.abs(x) < taylor_n_bound) {\n            var result = x;\n            if
(Math.abs(x) > taylor_2_bound) {\n                result -= (x * x * x) / 3;\n            }\n            return result;\n        }\n        else {\n            var a = Math.exp(+x), b = Math.exp(-x);\n            return a ===
Infinity ? 1 : b === Infinity ? -1 : (a - b) / (a + b);\n        }\n    };\n    }\n\n    // Inverse hyperbolic function
implementations derived from boost special math functions,\n    // Copyright Eric Ford & Hubert Holin 2001.\n\n    if (typeof Math.asinh === \"undefined\") {\n        var asinh = function(x) {\n            if (x >= +taylor_n_bound)\n                {\n                    if (x > upper_taylor_n_bound)\n                        {\n                            if (x > upper_taylor_2_bound)\n                                {\n                                    // approximation by laurent series in 1/x at 0+ order from -1 to 0\n                                    return
Math.log(x) + Math.LN2;\n                                }\n                                else\n                                    {\n                                        // approximation by
laurent series in 1/x at 0+ order from -1 to 1\n                                        return Math.log(x * 2 + (1 / (x * 2)));\n                                    }\n                                }\n                                else\n                                    {\n                                        return
Math.log(x + Math.sqrt(x * x + 1));\n                                    }\n                                }\n                                else if (x <= -taylor_n_bound)\n                                    {\n                                        return -asinh(-x);\n                                    }\n                                else\n                                    {\n                                        // approximation by taylor series in x at 0 up to
order 2\n                                        var result = x;\n                                        if (Math.abs(x) >= taylor_2_bound)\n                                            {\n                                                var x3 =
x * x * x;\n                                                // approximation by taylor series in x at 0 up to order 4\n                                                result -= x3 / 6;\n                                            }\n                                        return result;\n                                    }\n                                };\n                            Math.asinh = asinh;\n                        }\n                    if (typeof Math.acosh ===
\"undefined\") {\n                        Math.acosh = function(x) {\n                            if (x < 1)\n                                {\n                                    return NaN;\n                                }\n                            else if (x - 1 >= taylor_n_bound)\n                                {\n                                    if (x > upper_taylor_2_bound)\n                                        {\n                                            // approximation
by laurent series in 1/x at 0+ order from -1 to 0\n                                            return Math.log(x) + Math.LN2;\n                                        }\n                                        else\n                                            {\n                                                return Math.log(x + Math.sqrt(x * x - 1));\n                                            }\n                                        }\n                                    }\n                                }\n                                {\n                                    var y = Math.sqrt(x - 1);\n                                    // approximation by taylor series in y at 0 up to order 2\n                                    var result = y;\n                                    if (y >= taylor_2_bound)\n                                        {\n                                            var y3 = y * y * y;\n                                            //
approximation by taylor series in y at 0 up to order 4\n                                            result -= y3 / 12;\n                                        }\n                                    }\n                                    return
Math.sqrt(2) * result;\n                                }\n                            };\n                        }\n                    if (typeof Math.atanh === \"undefined\") {\n                        Math.atanh =
function(x) {\n                            if (Math.abs(x) < taylor_n_bound) {\n                                var result = x;\n                                if (Math.abs(x) >
taylor_2_bound) {\n                                    result += (x * x * x) / 3;\n                                }\n                                return result;\n                            }\n                            return Math.log((1 + x) / (1 -
x)) / 2;\n                        };\n                    }\n                }\n            if (typeof Math.log1p === \"undefined\") {\n                Math.log1p = function(x) {\n                    if
(Math.abs(x) < taylor_n_bound) {\n                        var x2 = x * x;\n                        var x3 = x2 * x;\n                        var x4 = x3 *
x;\n                        // approximation by taylor series in x at 0 up to order 4\n                        return (-x4 / 4 + x3 / 3 - x2 / 2 +
x);\n                    }\n                    return Math.log(x + 1);\n                };\n            }\n        }\n        if (typeof Math.expm1 === \"undefined\") {\n            Math.expm1 = function(x) {\n                if (Math.abs(x) < taylor_n_bound) {\n                    var x2 = x * x;\n                    var
x3 = x2 * x;\n                    var x4 = x3 * x;\n                    // approximation by taylor series in x at 0 up to order 4\n                    return (x4 / 24 + x3 / 6 + x2 / 2 + x);\n                }\n                return Math.exp(x) - 1;\n            };\n        }\n    }\n\n    if (typeof Math.hypot === \"undefined\") {\n        Math.hypot =
function() {\n            var y = 0;\n            var length = arguments.length;\n            for (var i = 0; i < length; i++) {\n                if (arguments[i] === Infinity || arguments[i] === -Infinity) {\n                    return Infinity;\n                }\n                y +=
arguments[i] * arguments[i];\n            }\n            return Math.sqrt(y);\n        };\n    }\n\n    if (typeof Math.log10 === \"undefined\") {\n        Math.log10 = function(x) {\n            return Math.log(x) * Math.LOG10E;\n        };\n    }\n\n    if (typeof Math.log2 ===
\"undefined\") {\n        Math.log2 = function(x) {\n            return Math.log(x) * Math.LOG2E;\n        };\n    }\n\n    if (typeof
Math.clz32 === \"undefined\") {\n        Math.clz32 = (function(log, LN2) {\n            return function(x) {\n                var
asUInt = x >>> 0;\n                if (asUInt === 0) {\n                    return 32;\n                }\n                return 31 - (log(asUInt) /
LN2 | 0) | 0; // the
\"| 0\" acts like math.floor\n            };\n        })(Math.log, Math.LN2);\n    }\n\n    // For HtmlUnit and PhantomJs\n    if (typeof
ArrayBuffer.isView === \"undefined\") {\n        ArrayBuffer.isView = function(a) {\n            return a != null &&

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a.__proto__ != null && a.__proto__.__proto__ === Int8Array.prototype.__proto__;\n  });\n}\n\nif (typeof
Array.prototype.fill === "undefined") {\n  // Polyfill from https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill\n  Object.defineProperty(Array.prototype,
'fill', {\n    value: function (value) {\n\n      // Steps 1-2.\n      if (this == null) {\n        throw new
TypeError('this is null or not defined');\n      }\n      var O = Object(this);\n      // Steps 3-5.\n      var len = O.length >>> 0;\n      // Steps 6-7.\n      var start = arguments[1];\n      var relativeStart = start
>>> 0;\n      // Step 8.\n      var k = relativeStart
< 0 ?\n        Math.max(len + relativeStart, 0) :\n        Math.min(relativeStart, len);\n      // Steps
9-10.\n      var end = arguments[2];\n      var relativeEnd = end === undefined ?\n        len : end
>>> 0;\n      // Step 11.\n      var finalValue = relativeEnd < 0 ?\n        Math.max(len +
relativeEnd, 0) :\n        Math.min(relativeEnd, len);\n      // Step 12.\n      while (k <
finalValue) {\n        O[k] = value;\n        k++;\n      }\n      // Step 13.\n      return O;\n    }
});\n}\n\n(function() {\n  function normalizeOffset(offset, length) {\n    if (offset < 0) return Math.max(0, offset
+ length);\n    return Math.min(offset, length);\n  }\n  function typedArraySlice(begin, end) {\n    if (typeof
end === "undefined") {\n      end = this.length;\n    }\n    begin = normalizeOffset(begin || 0, this.length);\n    end = Math.max(begin, normalizeOffset(end,
this.length));\n    return new this.constructor(this.subarray(begin, end));\n  }\n  var arrays = [Int8Array,
Int16Array, Uint16Array, Int32Array, Float32Array, Float64Array];\n  for (var i = 0; i < arrays.length; ++i) {\n
var TypedArray = arrays[i];\n    if (typeof TypedArray.prototype.fill === "undefined") {\n      Object.defineProperty(TypedArray.prototype, 'fill', {\n        value: Array.prototype.fill\n      });\n    }\n    if (typeof TypedArray.prototype.slice === "undefined") {\n      Object.defineProperty(TypedArray.prototype,
'slice', {\n        value: typedArraySlice\n      });\n    }\n  }\n  // Patch apply to work with TypedArrays
if needed.\n  try {\n    (function() {}).apply(null, new Int32Array(0))\n  } catch (e) {\n    var apply =
Function.prototype.apply;\n    Object.defineProperty(Function.prototype,
'apply', {\n      value: function(self, array) {\n        return apply.call(this, self, [].slice.call(array));\n      }
});\n  }\n  // Patch map to work with TypedArrays if needed.\n  for (var i = 0; i < arrays.length; ++i) {\n
var TypedArray = arrays[i];\n    if (typeof TypedArray.prototype.map === "undefined") {\n      Object.defineProperty(TypedArray.prototype, 'map', {\n        value: function(callback, self) {\n          return [].slice.call(this).map(callback, self);\n        }
});\n    }\n  }\n  // Patch sort to work with
TypedArrays if needed.\n  // TODO: consider to remove following function and replace it with
`Kotlin.doubleCompareTo` (see misc.js)\n  var totalOrderComparator = function (a, b) {\n    if (a < b) return -
1;\n    if (a > b) return 1;\n    if (a === b) {\n      if (a !== 0) return 0;\n      var ia = 1 / a;\n      return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n    }\n    return a !== a ? (b !== b ? 0 : 1) :
-1\n  };\n  for (var i = 0; i < arrays.length; ++i) {\n    var TypedArray = arrays[i];\n    if (typeof
TypedArray.prototype.sort === "undefined") {\n      Object.defineProperty(TypedArray.prototype, 'sort', {\n        value: function(compareFunction) {\n          return Array.prototype.sort.call(this, compareFunction ||
totalOrderComparator);\n        }
});\n    }\n  }\n}\n\n);"/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.Kind = {\n  CLASS: "class",\n  INTERFACE: "interface",\n  OBJECT: "object"\n};\n\nKotlin.callGetter = function (thisObject, klass,
propertyName) {\n  var propertyDescriptor =
Object.getOwnPropertyDescriptor(klass, propertyName);\n  if (propertyDescriptor != null &&
propertyDescriptor.get != null) {\n    return propertyDescriptor.get.call(thisObject);\n  }\n  propertyDescriptor =
Object.getOwnPropertyDescriptor(thisObject, propertyName);\n  if (propertyDescriptor != null && "value" in
propertyDescriptor) {\n    return thisObject[propertyName];\n  }\n  return Kotlin.callGetter(thisObject,
Object.getPrototypeOf(klass), propertyName);\n};\n\nKotlin.callSetter = function (thisObject, klass, propertyName,
value) {\n  var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);\n  if
(propertyDescriptor != null && propertyDescriptor.set != null) {\n    propertyDescriptor.set.call(thisObject,

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value);\n    return;\n };\n\n propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject,
propertyName);\n if (propertyDescriptor != null && \"value\" in propertyDescriptor) {\n
thisObject[propertyName]
= value;\n    return\n };\n\n Kotlin.callSetter(thisObject, Object.getPrototypeOf(class), propertyName,
value);\n};\n\nfunction isInheritanceFromInterface(ctor, iface) {\n    if (ctor === iface) return true;\n    var
metadata = ctor.$metadata$;\n    if (metadata != null) {\n        var interfaces = metadata.interfaces;\n        for (var i =
0; i < interfaces.length; i++) {\n            if (isInheritanceFromInterface(interfaces[i], iface)) {\n                return
true;\n            }\n        }\n    }\n\n    var superPrototype = ctor.prototype != null ?
Object.getPrototypeOf(ctor.prototype) : null;\n    var superConstructor = superPrototype != null ?
superPrototype.constructor : null;\n    return superConstructor != null &&
isInheritanceFromInterface(superConstructor, iface);\n}\n\n/**\n * @param {*} object\n * @param
{Function|Object} klass\n * @returns {Boolean}\n */\nKotlin.isType = function (object, klass) {\n    if (klass ===
Object) {\n        switch (typeof object)\n        {\n            case \"string\":\n            case \"number\":\n            case \"boolean\":\n            case \"function\":\n                return true;\n            default:\n                return object instanceof Object;\n        }\n    }\n\n    if (object == null || klass
== null || (typeof object !== 'object' && typeof object !== 'function')) {\n        return false;\n    }\n\n    if (typeof
klass === \"function\" && object instanceof klass) {\n        return true;\n    }\n\n    var proto =
Object.getPrototypeOf(klass);\n    var constructor = proto != null ? proto.constructor : null;\n    if (constructor != null
&& \"$metadata$\" in constructor) {\n        var metadata = constructor.$metadata$;\n        if (metadata.kind ===
Kotlin.Kind.OBJECT) {\n            return object === klass;\n        }\n    }\n\n    var klassMetadata =
klass.$metadata$;\n\n    // In WebKit (JavaScriptCore) for some interfaces from DOM typeof returns \"object\",
nevertheless they can be used in RHS
of instanceof\n    if (klassMetadata == null) {\n        return object instanceof klass;\n    }\n\n    if
(klassMetadata.kind === Kotlin.Kind.INTERFACE && object.constructor != null) {\n        return
isInheritanceFromInterface(object.constructor, klass);\n    }\n\n    return false;\n};\n\nKotlin.isNumber = function (a)
{\n    return typeof a === \"number\" || a instanceof Kotlin.Long;\n};\n\nKotlin.isChar = function (value) {\n    return
value instanceof Kotlin.BoxedChar;\n};\n\nKotlin.isComparable = function (value) {\n    var type = typeof value;\n\n    return type === \"string\" ||\n        type === \"boolean\" ||\n        Kotlin.isNumber(value) ||\n        Kotlin.isType(value, Kotlin.kotlin.Comparable);\n};\n\nKotlin.isCharSequence = function (value) {\n    return
typeof value === \"string\" || Kotlin.isType(value, Kotlin.kotlin.CharSequence);\n};\n\n/*\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get
declarations directly under the module\n\n@PublishedApi\ninternal fun <T> Array(size: Int):
Array<T>\n\n@JsName(\"newArray\")\nfun <T> newArray(size: Int, initialValue: T) = fillArrayVal(Array<T>(size),
initialValue)\n\n@JsName(\"newArrayF\")\ninline fun <T> arrayWithFun(size: Int, init: (Int) -> T) =
fillArrayFun(Array<T>(size), init)\n\n@JsName(\"fillArray\")\ninline fun <T> fillArrayFun(array: Array<T>, init:
(Int) -> T): Array<T> {\n    for (i in 0..array.size - 1) {\n        array[i] = init(i)\n    }\n    return
array\n}\n\n@JsName(\"booleanArray\")\nfun booleanArray(size: Int, init: dynamic): Array<Boolean> {\n    val
result: dynamic = Array<Boolean>(size)\n    result.`$type$` = \"BooleanArray\"\n    return when (init) {\n        null,
true -> fillArrayVal(result, false)\n        false -> result\n        else -> fillArrayFun<Boolean>(result, init)\n
}\n}\n\n@JsName(\"booleanArrayF\")\ninline
fun booleanArrayWithFun(size: Int, init: (Int) -> Boolean): Array<Boolean> = fillArrayFun(booleanArray(size,
false), init)\n\n@JsName(\"charArray\")\n@Suppress(\"UNUSED_PARAMETER\")\nfun charArray(size: Int, init:
dynamic): Array<Char> {\n    val result = js(\"new Uint16Array(size)\")\n    result.`$type$` = \"CharArray\"\n    return when (init) {\n        null, true, false -> result // For consistency\n        else -> fillArrayFun<Char>(result,
init)\n    }\n}\n\n@JsName(\"charArrayF\")\ninline fun charArrayWithFun(size: Int, init: (Int) -> Char):
Array<Char> {\n    val array = charArray(size, null)\n    for (i in 0..array.size - 1) {\n
@Suppress(\"UNUSED_VARIABLE\") // used in js block\n        val value = init(i)\n        js(\"array[i] = value;\")\n
}

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}\n return array\n}\n\n@jsName("untypedCharArrayF")\ninline fun untypedCharArrayWithFun(size: Int, init:
(Int) -> Char): Array<Char> {\n val array = Array<Char>(size)\n for (i in
0..array.size - 1) {\n @Suppress("UNUSED_VARIABLE") // used in js block\n val value = init(i)\n
js("array[i] = value;")\n }\n return array\n}\n\n@jsName("longArray")\nfun longArray(size: Int, init:
dynamic): Array<Long> {\n val result: dynamic = Array<Long>(size)\n result.`$type$` = "LongArray"\n
return when (init) {\n null, true -> fillArrayVal(result, 0L)\n false -> result\n else ->
fillArrayFun<Long>(result, init)\n }\n}\n\n@jsName("longArrayF")\ninline fun longArrayWithFun(size: Int,
init: (Int) -> Long): Array<Long> = fillArrayFun(longArray(size, false), init)\n\nprivate fun <T> fillArrayVal(array:
Array<T>, initialValue: T): Array<T> {\n for (i in 0..array.size - 1) {\n array[i] = initialValue\n }\n return
array\n},"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt
file.\n */\n\npackage kotlin\n\npublic class Enum<T> : Enum<T>> : Comparable<Enum<T>> {\n
@jsName("name$") private var _name: String = ""\n @JsName("ordinal$") private var _ordinal: Int = 0\n\n
val name: String\n get() = _name\n\n val ordinal: Int\n get() = _ordinal\n\n override fun
compareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)\n\n override fun equals(other: Any?) = this ===
other\n\n override fun hashCode(): Int = js("Kotlin.identityHashCode")(this)\n\n override fun toString() =
name\n\n companion object\n},"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.js.internal\n\n@jsName("DoubleCompanionObject")\ninternal
object DoubleCompanionObject {\n @JsName("MIN_VALUE")\n const val MIN_VALUE: Double = 4.9E-
324\n\n @JsName("MAX_VALUE")\n
const val MAX_VALUE: Double = 1.7976931348623157E308\n\n @JsName("POSITIVE_INFINITY")\n
@Suppress("DIVISION_BY_ZERO")\n const val POSITIVE_INFINITY: Double = 1.0 / 0.0\n\n
@jsName("NEGATIVE_INFINITY")\n @Suppress("DIVISION_BY_ZERO")\n const val
NEGATIVE_INFINITY: Double = -1.0 / 0.0\n\n @JsName("NaN")\n
@Suppress("DIVISION_BY_ZERO")\n const val NaN: Double = -(0.0 / 0.0)\n\n
@jsName("SIZE_BYTES")\n const val SIZE_BYTES = 8\n\n @JsName("SIZE_BITS")\n const val
SIZE_BITS = 64\n}\n\n@jsName("FloatCompanionObject")\ninternal object FloatCompanionObject {\n
@jsName("MIN_VALUE")\n const val MIN_VALUE: Float = 1.4E-45F\n\n @JsName("MAX_VALUE")\n
const val MAX_VALUE: Float = 3.4028235E38F\n\n @JsName("POSITIVE_INFINITY")\n
@Suppress("DIVISION_BY_ZERO")\n const val POSITIVE_INFINITY: Float = 1.0F / 0.0F\n\n
@jsName("NEGATIVE_INFINITY")\n @Suppress("DIVISION_BY_ZERO")\n const
val NEGATIVE_INFINITY: Float = -1.0F / 0.0F\n\n @JsName("NaN")\n
@Suppress("DIVISION_BY_ZERO")\n const val NaN: Float = -(0.0F / 0.0F)\n\n
@jsName("SIZE_BYTES")\n const val SIZE_BYTES = 4\n\n @JsName("SIZE_BITS")\n const val
SIZE_BITS = 32\n}\n\n@jsName("IntCompanionObject")\ninternal object IntCompanionObject {\n
@jsName("MIN_VALUE")\n val MIN_VALUE: Int = -2147483647 - 1\n\n @JsName("MAX_VALUE")\n
val MAX_VALUE: Int = 2147483647\n\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 4\n\n
@jsName("SIZE_BITS")\n const val SIZE_BITS = 32\n}\n\n@jsName("LongCompanionObject")\ninternal
object LongCompanionObject {\n @JsName("MIN_VALUE")\n val MIN_VALUE: Long =
js("Kotlin.Long.MIN_VALUE")\n\n @JsName("MAX_VALUE")\n val MAX_VALUE: Long =
js("Kotlin.Long.MAX_VALUE")\n\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 8\n\n
@jsName("SIZE_BITS")\n const val SIZE_BITS = 64\n}\n\n@jsName("ShortCompanionObject")\ninternal
object ShortCompanionObject {\n @JsName("MIN_VALUE")\n val MIN_VALUE: Short = -32768\n\n
@jsName("MAX_VALUE")\n val MAX_VALUE: Short = 32767\n\n @JsName("SIZE_BYTES")\n const
val SIZE_BYTES = 2\n\n @JsName("SIZE_BITS")\n const val SIZE_BITS =
16\n}\n\n@jsName("ByteCompanionObject")\ninternal object ByteCompanionObject {\n
@jsName("MIN_VALUE")\n val MIN_VALUE: Byte = -128\n\n @JsName("MAX_VALUE")\n val

```

```

MAX_VALUE: Byte = 127\n\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 1\n\n
@JsName("SIZE_BITS")\n const val SIZE_BITS = 8\n}\n\n@JsName("CharCompanionObject")\ninternal
object CharCompanionObject {\n @JsName("MIN_VALUE")\n public const val MIN_VALUE: Char =
"\u0000"\n\n @JsName("MAX_VALUE")\n public const val MAX_VALUE: Char = "\uFFFF"\n\n
@JsName("MIN_HIGH_SURROGATE")\n public const val MIN_HIGH_SURROGATE: Char = "\uD800"\n\n
@JsName("MAX_HIGH_SURROGATE")\n
public const val MAX_HIGH_SURROGATE: Char = "\uDBFF"\n\n
@JsName("MIN_LOW_SURROGATE")\n public const val MIN_LOW_SURROGATE: Char = "\uDC00"\n\n
@JsName("MAX_LOW_SURROGATE")\n public const val MAX_LOW_SURROGATE: Char = "\uDFFF"\n\n
@JsName("MIN_SURROGATE")\n public const val MIN_SURROGATE: Char =
MIN_HIGH_SURROGATE\n\n @JsName("MAX_SURROGATE")\n public const val MAX_SURROGATE:
Char = MAX_LOW_SURROGATE\n\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 2\n\n
@JsName("SIZE_BITS")\n const val SIZE_BITS = 16\n}\n\ninternal object StringCompanionObject
{\n}\n\ninternal object BooleanCompanionObject {\n}\n\n", /*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n\n@file:kotlin.jvm.JvmName("ArraysKt")\n\npackage
kotlin.collections\n\n// NOTE:
THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the
size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior
is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component1(): T
{\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1,
throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component1(): Byte {\n return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in
Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component1(): Short {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If
the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component1(): Int
{\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1,
throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component1(): Long {\n return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic
inline operator fun FloatArray.component1(): Float {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the
array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n
* where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun
DoubleArray.component1(): Double {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n *
If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component1():
Boolean {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is
less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component1():

```

Char {\n return get(0)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component2(): T {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component2(): Byte {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component2(): Short {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component2(): Int {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component2(): Long {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component2(): Float {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component2(): Double {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component2(): Boolean {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component2(): Char {\n return get(1)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component3(): T {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component3(): Byte {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component3(): Short {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component3(): Int {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component3(): Long {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component3(): Float {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```

*\n@kotlin.internal.InlineOnly\npublic inline operator
fun DoubleArray.component3(): Double {\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n *
\n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where
the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun
BooleanArray.component3(): Boolean {\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n *
\n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component3():
Char {\n    return get(2)\n}\n\n/**\n * Returns 4th *element* from the array.\n *
\n * If the size of this array is less
than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component4(): T {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n *
\n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component4(): Byte {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n *
\n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component4(): Short {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n *
\n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component4(): Int {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n *
\n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where
the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component4():
Long {\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n *
\n * If the size of this array is less
than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component4(): Float {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n *
\n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component4(): Double {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n *
\n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component4(): Boolean {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n *
\n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component4(): Char {\n    return
get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n *
\n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component5(): T {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n *
\n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where
the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component5():
Byte {\n    return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n *
\n * If the size of this array is less
than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component5(): Short {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n *
\n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component5(): Int {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n *
\n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

```

```

*  

@kotlin.internal.InlineOnly  

public  

inline operator fun LongArray.component5(): Long {  

    return get(4)  

}  

/**  

Returns 5th *element* from the array.  

If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS  

where the behavior is unspecified.  

*/  

@kotlin.internal.InlineOnly  

public inline operator fun  

FloatArray.component5(): Float {  

    return get(4)  

}  

/**  

Returns 5th *element* from the array.  

If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS  

where the behavior is unspecified.  

*/  

@kotlin.internal.InlineOnly  

public inline operator fun DoubleArray.component5():  

Double {  

    return get(4)  

}  

/**  

Returns 5th *element* from the array.  

If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS  

where the behavior is unspecified.  

*/  

@kotlin.internal.InlineOnly  

public inline operator fun BooleanArray.component5():  

Boolean {  

    return get(4)  

}  

/**  

Returns 5th *element* from the array.  

If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS  

where the behavior is unspecified.  

*/  

@kotlin.internal.InlineOnly  

public inline operator fun CharArray.component5(): Char {  

    return  

get(4)  

}  

/**  

Returns `true` if [element] is found in the array.  

*/  

public operator fun  

<@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element: T): Boolean {  

    return indexOf(element)  

    >= 0  

}  

/**  

Returns `true` if [element] is found in the array.  

*/  

public operator fun  

ByteArray.contains(element: Byte): Boolean {  

    return indexOf(element) >= 0  

}  

/**  

Returns `true` if  

[element] is found in the array.  

*/  

public operator fun  

ShortArray.contains(element: Short): Boolean {  

    return  

indexOf(element) >= 0  

}  

/**  

Returns `true` if [element] is found in the array.  

*/  

public operator fun  

IntArray.contains(element:  

Int): Boolean {  

    return indexOf(element) >= 0  

}  

/**  

Returns `true` if [element] is found in the array.  

*/  

public operator fun LongArray.contains(element: Long): Boolean {  

    return indexOf(element) >=  

0  

}  

/**  

Returns `true` if [element] is found in the array.  

*/  

@Deprecated("The function has unclear  

behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }'  

instead to continue using this behavior, or 'asList().contains(element: T)' to get the same search  

behavior as in a list.",  

ReplaceWith("any { it == element }"))  

@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6",  

hiddenSince = "1.7")  

public operator fun FloatArray.contains(element: Float): Boolean {  

    return any { it ==  

element }  

}  

/**  

Returns `true` if [element] is found in the array.  

*/  

@Deprecated("The function has  

unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it ==  

element }'  

instead to continue using this behavior, or 'asList().contains(element: T)' to get the same search  

behavior as in a  

list.",  

ReplaceWith("any { it == element }"))  

@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =  

"1.6",  

hiddenSince = "1.7")  

public operator fun DoubleArray.contains(element: Double): Boolean {  

    return  

any { it == element }  

}  

/**  

Returns `true` if [element] is found in the array.  

*/  

public operator fun  

BooleanArray.contains(element: Boolean): Boolean {  

    return indexOf(element) >= 0  

}  

/**  

Returns `true`  

if [element] is found in the array.  

*/  

public operator fun CharArray.contains(element: Char): Boolean {  

    return  

indexOf(element) >= 0  

}  

/**  

Returns an element at the given [index] or throws an  

[IndexOutOfBoundsException] if the [index] is out of bounds of this array.  

*/  

@sample  

samples.collections.Collections.Elements.elementAt  

public expect fun <T> Array<out T>.elementAt(index:  

Int): T  

/**  

Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of  

bounds of this array.  

*/  

@sample  

samples.collections.Collections.Elements.elementAt  

public expect fun  

ByteArray.elementAt(index: Int): Byte  

/**  

Returns an element at the given [index] or throws an  

[IndexOutOfBoundsException] if the [index] is out of bounds of this array.  

*/  

@sample  

samples.collections.Collections.Elements.elementAt  

public expect fun  

ShortArray.elementAt(index: Int):  

Short  

/**  

Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]  

is out of bounds of this array.  

*/  

@sample  

samples.collections.Collections.Elements.elementAt  

public  

expect fun IntArray.elementAt(index: Int): Int  

/**  

Returns an element at the given [index] or throws an  

[IndexOutOfBoundsException] if the [index] is out of bounds of this array.  

*/  

@sample

```

```

samples.collections.Collections.Elements.elementAt\n
*/\npublic expect fun LongArray.elementAt(index: Int): Long\n\n/**\n * Returns an element at the given [index] or
throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n */\npublic expect fun FloatArray.elementAt(index: Int):
Float\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]
is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n */\npublic expect fun DoubleArray.elementAt(index: Int): Double\n\n/**\n * Returns an element at the given [index] or throws
an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n */\npublic expect fun BooleanArray.elementAt(index: Int):
Boolean\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the
[index] is
out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n */\npublic expect fun CharArray.elementAt(index: Int): Char\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n    return if (index >= 0 && index <=
lastIndex)
get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling
the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) ->
Double): Double {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) ->
Boolean): Boolean {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]

```

```

function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.elementAtOrElse(index:
    Int, defaultValue: (Int) -> Char): Char {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrNull(index: Int): T? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrNull(index: Int): Byte? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*^\n@kotlin.internal.InlineOnly\npublic
    inline fun ShortArray.elementAtOrNull(index: Int): Short? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns
an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.elementAtOrNull(index: Int): Int? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrNull(index: Int): Long? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrNull(index:
    Int): Float? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.elementAtOrNull(index: Int): Double? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.elementAtOrNull(index: Int): Boolean? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.elementAtOrNull(index: Int): Char?
    {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.find(predicate: (T) -> Boolean): T? {\n
return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no
such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.find(predicate: (Byte) -> Boolean): Byte? {\n    return
firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such
element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.find(predicate: (Short) -> Boolean): Short? {\n
return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no
such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.find(predicate: (Int) -> Boolean): Int? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^\n@kotlin.internal.InlineOnly\npublic inline fun

```





```

@throws NoSuchElementException if the array is empty.\n */\npublic fun ShortArray.first(): Short {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return this[0]\n}\n\n/**\n * Returns the
first element.\n * \n * @throws NoSuchElementException if the array is empty.\n */\npublic fun IntArray.first(): Int
{\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return this[0]\n}\n\n/**\n *
Returns the first element.\n * \n * @throws NoSuchElementException if the array is empty.\n */\npublic fun
LongArray.first(): Long {\n    if (isEmpty())\n        throw NoSuchElementException("Array
is empty.")\n    return this[0]\n}\n\n/**\n * Returns the first element.\n * \n * @throws NoSuchElementException
if the array is empty.\n */\npublic fun FloatArray.first(): Float {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return this[0]\n}\n\n/**\n * Returns the first element.\n * \n *
@throws NoSuchElementException if the array is empty.\n */\npublic fun DoubleArray.first(): Double {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return this[0]\n}\n\n/**\n * Returns the
first element.\n * \n * @throws NoSuchElementException if the array is empty.\n */\npublic fun
BooleanArray.first(): Boolean {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n
return this[0]\n}\n\n/**\n * Returns the first element.\n * \n * @throws NoSuchElementException if the array is
empty.\n */\npublic fun CharArray.first(): Char {\n    if (isEmpty())\n        throw NoSuchElementException("Array
is
empty.")\n    return this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Array<out T>.first(predicate:
(T) -> Boolean): T {\n    for (element in this) if (predicate(element)) return element\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun ByteArray.first(predicate: (Byte) -> Boolean): Byte {\n    for (element in this) if
(predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun ShortArray.first(predicate: (Short) -
> Boolean): Short {\n    for
(element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Array contains no
element matching the predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n *
@throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun IntArray.first(predicate:
(Int) -> Boolean): Int {\n    for (element in this) if (predicate(element)) return element\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun LongArray.first(predicate: (Long) -> Boolean): Long {\n    for (element in this) if
(predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if
no such element is found.\n */\npublic inline fun FloatArray.first(predicate: (Float) -> Boolean): Float {\n    for
(element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Array contains no
element matching the predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n *
@throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun
DoubleArray.first(predicate: (Double) -> Boolean): Double {\n    for (element in this) if (predicate(element))
return
element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n */\npublic inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {\n    for
(element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Array contains no
element matching
the predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun CharArray.first(predicate: (Char) ->

```

```

Boolean): Char { \n for (element in this) if (predicate(element)) return element\n throw
NoSuchElementException("Array contains no element matching the predicate.\n)\n\n/**\n * Returns the first
non-null value produced by [transform] function being applied to elements of this array in iteration order,\n * or
throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Array<out
T>.firstNotNullOf(transform: (T) -> R?): R { \n return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the array was transformed to a non-null value.\n)\n\n/**\n * Returns
the first
non-null value produced by [transform] function being applied to elements of this array in iteration order,\n * or
`null` if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Array<out
T>.firstNotNullOfOrNull(transform: (T) -> R?): R? { \n for (element in this) { \n val result =
transform(element)\n if (result != null) { \n return result\n } \n } \n return null\n}\n\n/**\n *
Returns the first element, or `null` if the array is empty.\n *\npublic fun <T> Array<out T>.firstOrNull(): T? { \n
return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\npublic fun ByteArray.firstOrNull(): Byte? { \n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the
first element, or `null` if the array is empty.\n *\npublic fun ShortArray.firstOrNull():
Short? { \n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is
empty.\n *\npublic fun IntArray.firstOrNull(): Int? { \n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns
the first element, or `null` if the array is empty.\n *\npublic fun LongArray.firstOrNull(): Long? { \n return if
(isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n *\npublic fun
FloatArray.firstOrNull(): Float? { \n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element,
or `null` if the array is empty.\n *\npublic fun DoubleArray.firstOrNull(): Double? { \n return if (isEmpty()) null
else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n *\npublic fun
BooleanArray.firstOrNull(): Boolean? { \n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first
element, or `null` if the array is empty.\n *\npublic
fun CharArray.firstOrNull(): Char? { \n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if element was not found.\n *\npublic inline fun <T> Array<out
T>.firstOrNull(predicate: (T) -> Boolean): T? { \n for (element in this) if (predicate(element)) return element\n
return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not
found.\n *\npublic inline fun ByteArray.firstOrNull(predicate: (Byte) -> Boolean): Byte? { \n for (element in this)
if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n *\npublic inline fun ShortArray.firstOrNull(predicate: (Short) ->
Boolean): Short? { \n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null`
if element was not found.\n *\npublic inline fun IntArray.firstOrNull(predicate: (Int) -> Boolean): Int? { \n for
(element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n *\npublic inline fun
LongArray.firstOrNull(predicate: (Long) -> Boolean): Long? { \n for (element in this) if (predicate(element))
return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n *\npublic inline fun FloatArray.firstOrNull(predicate: (Float) -> Boolean): Float? { \n
for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n *\npublic inline fun
DoubleArray.firstOrNull(predicate: (Double) -> Boolean): Double? { \n for (element in this) if
(predicate(element))

```

```

return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n */\npublic inline fun BooleanArray.firstOrNull(predicate: (Boolean) -> Boolean):
Boolean? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
CharArray.firstOrNull(predicate: (Char) -> Boolean): Char? {\n for (element in this) if (predicate(element)) return
element\n return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Array<out T>.getOrNull(index: Int, defaultValue: (Int) -> T): T {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given
[index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.getOrNull(index: Int, defaultValue: (Int) -> Byte):
Byte {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.getOrNull(index: Int, defaultValue: (Int)
-> Short): Short {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n
* Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.getOrNull(index: Int,
defaultValue: (Int) -> Int): Int {\n return if (index >= 0 && index <= lastIndex)
get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun LongArray.getOrNull(index: Int, defaultValue: (Int) -> Long): Long {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.getOrNull(index: Int, defaultValue: (Int) -> Float):
Float {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.getOrNull(index:
Int, defaultValue: (Int) -> Double): Double {\n return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.getOrNull(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n return if (index >= 0 && index
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result
of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.getOrNull(index: Int, defaultValue: (Int) -> Char):
Char {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*/\npublic fun <T> Array<out T>.getOrNull(index: Int): T? {\n return if (index >= 0 && index <= lastIndex)
get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this array.\n */\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun
ByteArray.getOrNull(index: Int): Byte? {\n return if (index >= 0 && index <= lastIndex) get(index) else
null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n
* @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun ShortArray.getOrNull(index: Int):
Short? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun IntArray.getOrNull(index:
Int): Int? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample

```



Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun <T> Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun DoubleArray.indexOfLast(predicate: (Double) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

\* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun BooleanArray.indexOfLast(predicate:

```



## NoSuchElementException

```
if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n * \npublic inline fun  
IntArray.last(predicate: (Int) -> Boolean): Int {\n    for (index in this.indices.reversed()) {\n        val element =  
this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains  
no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
```

```
samples.collections.Collections.Elements.last\n * \npublic inline fun LongArray.last(predicate: (Long) -> Boolean):  
Long {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element))  
return element\n    }\n    throw NoSuchElementException("Array contains no element matching the  
predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws  
NoSuchElementException
```

```
if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n * \npublic inline fun  
FloatArray.last(predicate: (Float) -> Boolean): Float {\n    for (index in this.indices.reversed()) {\n        val element  
= this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException("Array  
contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given  
[predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
```

```
samples.collections.Collections.Elements.last\n * \npublic inline fun DoubleArray.last(predicate: (Double) ->  
Boolean): Double {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if  
(predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element  
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
```

```
samples.collections.Collections.Elements.last\n * \npublic inline fun BooleanArray.last(predicate: (Boolean) ->  
Boolean): Boolean {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if  
(predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element  
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * \n * @throws  
NoSuchElementException if no such element is found.\n * \n * @sample
```

```
samples.collections.Collections.Elements.last\n * \npublic inline fun CharArray.last(predicate: (Char) -> Boolean):  
Char {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element))  
return element\n    }\n    throw NoSuchElementException("Array contains no element matching the  
predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the
```

```
array does not contain element.\n * \npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out  
T>.lastIndexOf(element: T): Int {\n    if (element == null) {\n        for (index in indices.reversed()) {\n            if  
(this[index] == null) {\n                return index\n            }\n        }\n    } else {\n        for (index in indices.reversed())  
{\n            if (element == this[index]) {\n                return index\n            }\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n * \n * \npublic fun
```

```
ByteArray.lastIndexOf(element: Byte): Int {\n    for (index in indices.reversed()) {\n        if (element == this[index])  
{\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array  
does not contain element.\n * \n * \npublic fun ShortArray.lastIndexOf(element: Short): Int {\n    for (index in  
indices.reversed()) {\n        if (element == this[index])
```

```
{\n        return index\n    }\n}\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array  
does not contain element.\n * \n * \npublic fun IntArray.lastIndexOf(element: Int): Int {\n    for (index in  
indices.reversed()) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n * \n * \npublic fun
```

```
LongArray.lastIndexOf(element: Long): Int {\n    for (index in indices.reversed()) {\n        if (element ==  
this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if  
the array does not contain element.\n * \n * \n * @Deprecated("The function has unclear behavior when searching for NaN  
or zero values and will be removed soon. Use 'indexOfLast { it == element }' instead to continue using this  
behavior, or '.asList().lastIndexOf(element: T)' to get the same search behavior
```



```

as in a list.\", ReplaceWith(\"indexOfLast { it == element }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\",
errorSince = \"1.6\", hiddenSince = \"1.7\")\npublic fun FloatArray.lastIndexOf(element: Float): Int {\n  for (index
in indices.reversed()) {\n    if (element == this[index]) {\n      return index\n    }\n  }\n  return -
1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@Deprecated(\"The function has unclear behavior when searching for NaN or zero values and will be removed
soon. Use 'indexOfLast { it == element }' instead to continue using this behavior, or '.asList().lastIndexOf(element:
T)' to get the same search behavior as in a list.\", ReplaceWith(\"indexOfLast { it == element
}\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\", hiddenSince = \"1.7\")\npublic fun
DoubleArray.lastIndexOf(element: Double): Int {\n  for (index in indices.reversed()) {\n    if (element
== this[index]) {\n      return index\n    }\n  }\n  return -1\n}\n\n/**\n * Returns last index of [element], or -
1 if the array does not contain element.\n */\npublic fun BooleanArray.lastIndexOf(element: Boolean): Int {\n  for
(index in indices.reversed()) {\n    if (element == this[index]) {\n      return index\n    }\n  }\n  return -
1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun
CharArray.lastIndexOf(element: Char): Int {\n  for (index in indices.reversed()) {\n    if (element == this[index])
{\n      return index\n    }\n  }\n  return -1\n}\n\n/**\n * Returns the last element, or `null` if the array is
empty.\n */\n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Array<out
T>.lastOrNull(): T? {\n  return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null`
if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n */\npublic fun ByteArray.lastOrNull(): Byte? {\n  return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun ShortArray.lastOrNull(): Short? {\n  return if
(isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n *
@sample samples.collections.Collections.Elements.last\n */\npublic fun IntArray.lastOrNull(): Int? {\n  return if
(isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n *
@sample samples.collections.Collections.Elements.last\n */\npublic fun LongArray.lastOrNull(): Long? {\n  return
if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n *
@sample samples.collections.Collections.Elements.last\n */\npublic
fun FloatArray.lastOrNull(): Float? {\n  return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last
element, or `null` if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n */\npublic
fun DoubleArray.lastOrNull(): Double? {\n  return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the
last element, or `null` if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n */\n
public fun BooleanArray.lastOrNull(): Boolean? {\n  return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns
the last element, or `null` if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun CharArray.lastOrNull(): Char? {\n  return if
(isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if
no such element was found.\n */\n * @sample samples.collections.Collections.Elements.last\n */\npublic
inline fun <T> Array<out T>.lastOrNull(predicate: (T) -> Boolean): T? {\n  for (index in this.indices.reversed())
{\n    val element = this[index]\n    if (predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun ByteArray.lastOrNull(predicate: (Byte) ->
Boolean): Byte? {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if
(predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun ShortArray.lastOrNull(predicate: (Short) ->
Boolean): Short? {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if
(predicate(element))
return element\n  }\n  return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null`
if no such element was found.\n */\n * @sample samples.collections.Collections.Elements.last\n */\npublic inline

```

```

fun IntArray.lastOrNull(predicate: (Int) -> Boolean): Int? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\n\npublic inline fun LongArray.lastOrNull(predicate: (Long) ->
Boolean): Long? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\n\npublic inline fun FloatArray.lastOrNull(predicate: (Float) ->
Boolean): Float? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\n\npublic inline fun DoubleArray.lastOrNull(predicate: (Double) ->
Boolean): Double? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\n\npublic inline fun BooleanArray.lastOrNull(predicate: (Boolean) ->
Boolean): Boolean? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\n\npublic inline fun CharArray.lastOrNull(predicate: (Char) ->
Boolean): Char? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a random element from this array.\n *
\n * @throws NoSuchElementException if this array is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.random(): T {\n
return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.random():
Byte {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun ShortArray.random(): Short {\n    return random(Random)\n}\n\n/**\n * Returns a random element from
this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.random(): Int {\n
return
random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.random(): Long {\n    return random(Random)\n}\n\n/**\n * Returns a random element from
this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.random():
Float {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.random(): Double {\n    return random(Random)\n}\n\n/**\n * Returns a random element
from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.random(): Boolean {\n
return
random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun CharArray.random(): Char {\n    return random(Random)\n}\n\n/**\n * Returns a random element from
this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is
empty.\n */\n\n@SinceKotlin("1.3")\npublic fun

```

```

<T> Array<out T>.random(random: Random): T {
    if (isEmpty())
        throw
NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun ByteArray.random(random: Random): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return
get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun ShortArray.random(random: Random): Short {
    if (isEmpty())
        throw
NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun IntArray.random(random: Random): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return
get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun LongArray.random(random: Random): Long {
    if (isEmpty())
        throw
NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun FloatArray.random(random: Random): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return
get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun DoubleArray.random(random: Random): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return
get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
public fun BooleanArray.random(random: Random): Boolean {
    if (isEmpty())
        throw
NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.randomOrNull(): T? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun ByteArray.randomOrNull(): Byte? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun ShortArray.randomOrNull(): Short? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun IntArray.randomOrNull(): Int? {
    return randomOrNull(Random)
}

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun LongArray.randomOrNull(): Long? {
    return randomOrNull(Random)
}

```

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.randomOrNull(): Float? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.randomOrNull(): Double? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.randomOrNull(): Boolean? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T> Array<out T>.randomOrNull(random: Random): T? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun ByteArray.randomOrNull(random: Random): Byte? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun ShortArray.randomOrNull(random: Random): Short? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun IntArray.randomOrNull(random: Random): Int? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun LongArray.randomOrNull(random: Random): Long? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun FloatArray.randomOrNull(random: Random): Float? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun DoubleArray.randomOrNull(random: Random): Double? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun BooleanArray.randomOrNull(random: Random): Boolean? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun CharArray.randomOrNull(random: Random): Char? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */
*\npublic fun <T> Array<out T>.single(): T {\n    return when (size) {\n        0 ->

```

```

throw NoSuchElementException("Array is empty.")\n    1 -> this[0]\n
    else -> throw IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the
single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun
ByteArray.single(): Byte {\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is
empty.")\n        1 -> this[0]\n        else -> throw IllegalArgumentException("Array has more than one element.")\n
    }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one
element.\n */\npublic fun ShortArray.single(): Short {\n    return when (size) {\n        0 -> throw
NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw
IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n */\npublic fun IntArray.single(): Int {\n
return when
(size) {\n        0 -> throw NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw
IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n */\npublic fun LongArray.single(): Long
{\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is empty.")\n        1 -> this[0]\n
else -> throw IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the
single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun
FloatArray.single(): Float {\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is
empty.")\n        1 -> this[0]\n        else -> throw IllegalArgumentException("Array has more than one element.")\n
    }\n}\n\n/**\n * Returns the single element, or throws an exception if the array
is empty or has more than one element.\n */\npublic fun DoubleArray.single(): Double {\n    return when (size) {\n
        0 -> throw NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw
IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n */\npublic fun BooleanArray.single():
Boolean {\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is empty.")\n        1 ->
this[0]\n        else -> throw IllegalArgumentException("Array has more than one element.")\n    }\n}\n\n/**\n *
Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic
fun CharArray.single(): Char {\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is
empty.")\n        1 -> this[0]\n        else -> throw IllegalArgumentException("Array has more
than one element.")\n    }\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws
exception if there is no or more than one matching element.\n */\npublic inline fun <T> Array<out
T>.single(predicate: (T) -> Boolean): T {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n
        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array contains more than one
matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\nreturn single as T\n}\n\n/**\n * Returns the single element matching the
given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun
ByteArray.single(predicate: (Byte) -> Boolean): Byte {\n    var single: Byte? = null\n    var found = false\n    for
(element
in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array contains more
than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\nreturn single as Byte\n}\n\n/**\n * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun
ShortArray.single(predicate: (Short) -> Boolean): Short {\n    var single: Short? = null\n    var found = false\n    for
(element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching

```



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return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n */\npublic fun DoubleArray.singleOrNull(): Double? {\n    return if (size == 1) this[0] else
null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic
fun BooleanArray.singleOrNull(): Boolean? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n */\npublic fun CharArray.singleOrNull():
Char? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns
the single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n */\npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -> Boolean): T? {\n    var single: T? =
null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n
            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n *
Returns the single element matching the given [predicate], or `null` if element was not found or more than one
element was found.\n */\npublic inline fun ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {\n    var
single: Byte? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if
(found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return
single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one
element was found.\n */\npublic inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n    var
single: Short? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if
(found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return
single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or
more than one element was found.\n */\npublic inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int?
{\n    var single: Int? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n
            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n
    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or
more than one element was found.\n */\npublic inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n    var
single: Long? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if
(found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return
single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or
more than one element was found.\n */\npublic inline fun FloatArray.singleOrNull(predicate: (Float) -> Boolean):
Float? {\n    var single: Float? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element))
{\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return
null\n}\n\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not
found or more than one element was found.\n */\npublic inline fun DoubleArray.singleOrNull(predicate: (Double) -
> Boolean): Double? {\n    var single: Double? = null\n    var found = false\n    for (element in this) {\n        if
(predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n
    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.\n */\npublic inline fun
BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n    var single: Boolean? = null\n    var
found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single
= element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.\n */\npublic inline fun
CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {\n    var single: Char? = null\n    var found = false\n
for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n
            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a list containing all
elements except first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample

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samples.collections.Collections.Transformations.drop\n *\npublic fun <T> Array<out T>.drop(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except
first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ByteArray.drop(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ShortArray.drop(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun IntArray.drop(n: Int): List<Int> {\n
require(n
>= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun LongArray.drop(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun FloatArray.drop(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun DoubleArray.drop(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun BooleanArray.drop(n: Int): List<Boolean>
{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun CharArray.drop(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element
count $n is less than zero.\" }\n  return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list
containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n *
\n * @sample samples.collections.Collections.Transformations.drop\n *\npublic fun <T> Array<out T>.dropLast(n:
Int): List<T> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ByteArray.dropLast(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is
negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic fun
ShortArray.dropLast(n: Int): List<Short> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\"
}\n  return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n]

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elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n * \n public fun IntArray.dropLast(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n * \n public fun LongArray.dropLast(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return
take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n * \n public fun FloatArray.dropLast(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n * \n public fun DoubleArray.dropLast(n: Int): List<Double>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
* \n public fun BooleanArray.dropLast(n: Int): List<Boolean> {\n require(n >= 0) { \"Requested element count $n
is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements
except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n * \n public fun CharArray.dropLast(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n * \n public inline fun <T>
Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n for (index in lastIndex downTo 0) {\n if
(!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n * \n public
inline fun ByteArray.dropLastWhile(predicate: (Byte) -> Boolean): List<Byte> {\n for (index in lastIndex
downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n * \n public inline fun
ShortArray.dropLastWhile(predicate: (Short) -> Boolean): List<Short> {\n for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except last elements that satisfy the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n * \n public inline fun
IntArray.dropLastWhile(predicate: (Int) -> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if
(!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns
a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n * \n public inline fun LongArray.dropLastWhile(predicate:
(Long) -> Boolean): List<Long> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n * \n public inline fun FloatArray.dropLastWhile(predicate:
(Float) -> Boolean): List<Float> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample

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samples.collections.Collections.Transformations.drop\n *\npublic inline fun DoubleArray.dropLastWhile(predicate:
(Double) -> Boolean): List<Double> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
    return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun
BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n  for (index in lastIndex
downTo 0) {\n    if (!predicate(this[index])) {\n
    return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all
elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun CharArray.dropLastWhile(predicate:
(Char) -> Boolean): List<Char> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun <T> Array<out
T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n  var yielding = false\n  val list = ArrayList<T>()\n  for
(item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n      list.add(item)\n
yielding
= true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy
the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline
fun ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<Byte> {\n  var yielding = false\n  val list =
ArrayList<Byte>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n
list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun ShortArray.dropWhile(predicate:
(Short) -> Boolean): List<Short> {\n  var yielding = false\n  val list = ArrayList<Short>()\n  for (item in this)\n
if (yielding)\n      list.add(item)\n    else if (!predicate(item))\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun IntArray.dropWhile(predicate: (Int) ->
Boolean): List<Int> {\n  var yielding = false\n  val list = ArrayList<Int>()\n  for (item in this)\n    if
(yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n      list.add(item)\n      yielding = true\n
}\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given
[predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun
LongArray.dropWhile(predicate: (Long) -> Boolean): List<Long> {\n  var yielding = false\n  val list =
ArrayList<Long>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n
list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun
FloatArray.dropWhile(predicate: (Float) -> Boolean): List<Float> {\n  var yielding = false\n  val list =
ArrayList<Float>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item))\n
list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun DoubleArray.dropWhile(predicate:
(Double) -> Boolean): List<Double> {\n  var yielding = false\n  val list = ArrayList<Double>()\n  for (item in this)\n
if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n      list.add(item)\n      yielding = true\n
}\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun BooleanArray.dropWhile(predicate:

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(Boolean) -> Boolean): List<Boolean> {\n  var yielding = false\n  val list = ArrayList<Boolean>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun CharArray.dropWhile(predicate: (Char) -> Boolean): List<Char> {\n  var yielding = false\n  val list = ArrayList<Char>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Array<out T>.filter(predicate: (T) -> Boolean): List<T> {\n  return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun ByteArray.filter(predicate: (Byte) -> Boolean): List<Byte> {\n  return filterTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {\n  return filterTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun IntArray.filter(predicate: (Int) -> Boolean): List<Int> {\n  return filterTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {\n  return filterTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun FloatArray.filter(predicate: (Float) -> Boolean): List<Float> {\n  return filterTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {\n  return filterTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {\n  return filterTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun CharArray.filter(predicate: (Char) -> Boolean): List<Char> {\n  return filterTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun <T> Array<out T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n  return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun ByteArray.filterIndexed(predicate: (index: Int, Byte) -> Boolean): List<Byte> {\n  return filterIndexedTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun ShortArray.filterIndexed(predicate: (index: Int, Short) -> Boolean): List<Short> {\n  return filterIndexedTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @param [predicate] function that takes

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the index of an element and the element itself and returns the result of predicate evaluation on the element.

```

@sample samples.collections.Collections.Filtering.filterIndexed
public inline fun IntArray.filterIndexed(predicate: (index: Int, Int) -> Boolean): List<Int> {
    return filterIndexedTo(ArrayList<Int>(), predicate)
}

```

Returns a list containing only elements matching the given [predicate].

@param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.

```

@sample samples.collections.Collections.Filtering.filterIndexed
public inline fun LongArray.filterIndexed(predicate: (index: Int, Long) -> Boolean): List<Long> {
    return filterIndexedTo(ArrayList<Long>(), predicate)
}

```

Returns a list containing only elements matching the given [predicate].

@param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.

```

@sample samples.collections.Collections.Filtering.filterIndexed
public inline fun FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {
    return filterIndexedTo(ArrayList<Float>(), predicate)
}

```

Returns a list containing only elements matching the given [predicate].

@param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.

```

@sample samples.collections.Collections.Filtering.filterIndexed
public inline fun DoubleArray.filterIndexed(predicate: (index: Int, Double) -> Boolean): List<Double> {
    return filterIndexedTo(ArrayList<Double>(), predicate)
}

```

Returns a list containing only elements matching the given [predicate].

@param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.

```

@sample samples.collections.Collections.Filtering.filterIndexed
public inline fun BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {
    return filterIndexedTo(ArrayList<Boolean>(), predicate)
}

```

Returns a list containing only elements matching the given [predicate].

@param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.

```

@sample samples.collections.Collections.Filtering.filterIndexed
public inline fun CharArray.filterIndexed(predicate: (index: Int, Char) -> Boolean): List<Char> {
    return filterIndexedTo(ArrayList<Char>(), predicate)
}

```

Appends all elements matching the given [predicate] to the given [destination].

@param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.

```

@sample samples.collections.Collections.Filtering.filterIndexedTo
public inline fun <T, C : MutableCollection<in T>> Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

```

Appends all elements matching the given [predicate] to the given [destination].

@param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.

```

@sample samples.collections.Collections.Filtering.filterIndexedTo
public inline fun <C : MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate: (index: Int, Byte) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

```

Appends all elements matching the given [predicate] to the given [destination].

@param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.

```

@sample samples.collections.Collections.Filtering.filterIndexedTo
public inline fun <C : MutableCollection<in Short>> ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

```

Appends all elements matching the given [predicate] to the given [destination].

@param [predicate] function that takes the index of an element and the element itself and returns the result of predicate evaluation on the element.

```

@sample samples.collections.Collections.Filtering.filterIndexedTo
public inline fun <C : MutableCollection<in Int>>

```

```

IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

Appends all elements matching the given [predicate] to the given [destination].
@param [predicate] function that takes the index of an element and the element itself
and returns the result of predicate evaluation on the element.

@sample samples.collections.Collections.Filtering.filterIndexedTo

public inline fun <C : MutableCollection<in Long>> LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

Appends all elements matching the given [predicate] to the given [destination].
@param [predicate] function that takes the index of an element and the element itself
and returns the result of predicate evaluation on the element.

@sample samples.collections.Collections.Filtering.filterIndexedTo

public inline fun <C : MutableCollection<in Float>> FloatArray.filterIndexedTo(destination: C, predicate: (index: Int, Float) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

Appends all elements matching the given [predicate] to the given [destination].
@param [predicate] function that takes the index of an element and the element itself
and returns the result of predicate evaluation on the element.

@sample samples.collections.Collections.Filtering.filterIndexedTo

public inline fun <C : MutableCollection<in Double>> DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

Appends all elements matching the given [predicate] to the given [destination].
@param [predicate] function that takes the index of an element and the element itself
and returns the result of predicate evaluation on the element.

@sample samples.collections.Collections.Filtering.filterIndexedTo

public inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

Appends all elements matching the given [predicate] to the given [destination].
@param [predicate] function that takes the index of an element and the element itself
and returns the result of predicate evaluation on the element.

@sample samples.collections.Collections.Filtering.filterIndexedTo

public inline fun <C : MutableCollection<in Char>> CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

Returns a list containing all elements that are instances of specified type parameter R.
@param [R] type parameter R
@sample samples.collections.Collections.Filtering.filterIsInstance

public inline fun <reified R> Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {
    return filterIsInstanceTo(ArrayList<R>())
}

Appends all elements that are instances of specified type parameter R to the given [destination].
@sample samples.collections.Collections.Filtering.filterIsInstanceTo

public inline fun <reified R, C : MutableCollection<in R>> Array<*>.filterIsInstanceTo(destination: C): C {
    for (element in this) if (element is R) destination.add(element)
    return destination
}

Returns a list containing all elements not matching the given [predicate].
@sample samples.collections.Collections.Filtering.filter

public inline fun <T> Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {
    return filterNotTo(ArrayList<T>(), predicate)
}

Returns a list containing all elements not matching the given [predicate].
@sample samples.collections.Collections.Filtering.filter

public inline fun ByteArray.filterNot(predicate: (Byte) -> Boolean): List<Byte> {
    return filterNotTo(ArrayList<Byte>(), predicate)
}

Returns a list containing all elements not matching the given [predicate].
@sample samples.collections.Collections.Filtering.filter

public inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> {
    return filterNotTo(ArrayList<Short>(), predicate)
}

Returns a list containing all elements not matching the given [predicate].
@sample

```

```

samples.collections.Collections.Filtering.filter\n *\npublic inline fun IntArray.filterNot(predicate: (Int) -> Boolean):
List<Int> {\n  return filterNotNullTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing all elements
not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic
inline fun LongArray.filterNot(predicate: (Long) -> Boolean): List<Long> {\n  return
filterNotNullTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the
given [predicate].\n
* \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline fun
FloatArray.filterNot(predicate: (Float) -> Boolean): List<Float> {\n  return filterNotNullTo(ArrayList<Float>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun DoubleArray.filterNot(predicate: (Double) ->
Boolean): List<Double> {\n  return filterNotNullTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun BooleanArray.filterNot(predicate: (Boolean) -
> Boolean): List<Boolean> {\n  return filterNotNullTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline
fun CharArray.filterNot(predicate: (Char) -> Boolean): List<Char> {\n  return filterNotNullTo(ArrayList<Char>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements that are not `null`.\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNull\n *\npublic fun <T : Any> Array<out T?>.filterNotNull():
List<T> {\n  return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the
given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterNotNullTo\n *\npublic fun <C
: MutableCollection<in T>, T : Any> Array<out T?>.filterNotNullTo(destination: C): C {\n  for (element in this) if
(element != null) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterNotTo(destination:
C, predicate: (T) -> Boolean): C {\n  for (element in this) if (!predicate(element)) destination.add(element)\n
return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given
[destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C :
MutableCollection<in Byte>> ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {\n  for
(element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Short>>
ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate]
to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline
fun <C : MutableCollection<in Int>> IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {\n  for
(element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Float>>
FloatArray.filterNotTo(destination: C, predicate:
(Float) -> Boolean): C {\n  for (element in this) if (!predicate(element)) destination.add(element)\n  return
destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in

```

```

Double>> DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Boolean>>
BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate]
to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline
fun <C : MutableCollection<in Char>> CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n
for (element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends
all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <T, C : MutableCollection<in T>>
Array<out T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n  for (element in this) if
(predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*/\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterTo(destination: C, predicate: (Byte) ->
Boolean):
C {\n  for (element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n *
Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Short>>
ShortArray.filterTo(destination: C, predicate: (Short) -> Boolean): C {\n  for (element in this) if
(predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*/\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean):
C {\n  for (element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n *
Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {\n  for (element in this) if
(predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*/\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterTo(destination: C, predicate: (Float) ->
Boolean): C {\n  for (element in this) if (predicate(element)) destination.add(element)\n  return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in
Double>> DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C {\n  for (element in this) if
(predicate(element))
destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching the given [predicate]
to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun
<C : MutableCollection<in Boolean>> BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C
{\n  for (element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n *
Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Char>>
CharArray.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n  for (element in this) if
(predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Returns a list containing elements
at indices in the specified [indices] range.\n */\npublic fun <T> Array<out T>.slice(indices: IntRange):
List<T> {\n  if (indices.isEmpty()) return listOf()\n  return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic
fun ByteArray.slice(indices: IntRange): List<Byte> {\n  if (indices.isEmpty()) return listOf()\n  return

```

```

copyOfRange(indices.start, indices.endInclusive + 1).asList()\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n */\npublic fun ShortArray.slice(indices: IntRange): List<Short> {\n if
(indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic
fun IntArray.slice(indices: IntRange): List<Int> {\n if (indices.isEmpty()) return listOf()\n return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing
elements at indices in the specified [indices] range.\n */\npublic fun LongArray.slice(indices: IntRange):
List<Long> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic
fun FloatArray.slice(indices: IntRange): List<Float> {\n if (indices.isEmpty()) return listOf()\n return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n */\npublic fun DoubleArray.slice(indices: IntRange): List<Double> {\n
if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic
fun BooleanArray.slice(indices: IntRange): List<Boolean> {\n if (indices.isEmpty())
return listOf()\n return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list
containing elements at indices in the specified [indices] range.\n */\npublic fun CharArray.slice(indices: IntRange):
List<Char> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun <T> Array<out
T>.slice(indices: Iterable<Int>): List<T> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0)
return emptyList()\n val list = ArrayList<T>(size)\n for (index in indices) {\n list.add(get(index))\n }\n
return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun
ByteArray.slice(indices: Iterable<Int>): List<Byte> {\n val size = indices.collectionSizeOrDefault(10)\n if (size
== 0) return emptyList()\n val list = ArrayList<Byte>(size)\n
for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun ShortArray.slice(indices: Iterable<Int>): List<Short> {\n val size
= indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Short>(size)\n
for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun IntArray.slice(indices: Iterable<Int>): List<Int> {\n val size =
indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Int>(size)\n for
(index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at
specified [indices].\n */\npublic fun LongArray.slice(indices: Iterable<Int>): List<Long> {\n val size =
indices.collectionSizeOrDefault(10)\n
if (size == 0) return emptyList()\n val list = ArrayList<Long>(size)\n for (index in indices) {\n
list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n
public fun FloatArray.slice(indices: Iterable<Int>): List<Float> {\n val size =
indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Float>(size)\n
for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun DoubleArray.slice(indices: Iterable<Int>): List<Double> {\n val
size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<Double>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n */\npublic fun BooleanArray.slice(indices: Iterable<Int>):
List<Boolean> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list
= ArrayList<Boolean>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n */\npublic fun CharArray.slice(indices: Iterable<Int>):
List<Char> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<Char>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns an array containing elements of this array at specified [indices].\n */\npublic fun <T>

```



```

Array<T>.sliceArray(indices: Collection<Int>): Array<T> {\n    val result = arrayOfNulls(this, indices.size)\n    var\n    targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return\n    result\n}\n\n/**\n * Returns an array containing\n    elements of this array at specified [indices].\n */\n\npublic fun ByteArray.sliceArray(indices: Collection<Int>):\n    ByteArray {\n    val result = ByteArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n}\n\n/**\n * Returns an array containing elements\n    of this array at specified [indices].\n */\n\npublic fun ShortArray.sliceArray(indices: Collection<Int>): ShortArray {\n    val result = ShortArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n}\n\n/**\n * Returns an array containing elements\n    of this array at specified [indices].\n */\n\npublic fun IntArray.sliceArray(indices: Collection<Int>): IntArray {\n    val result = IntArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] =\n        this[sourceIndex]\n    }\n    return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n\npublic fun\n    LongArray.sliceArray(indices: Collection<Int>): LongArray {\n    val result = LongArray(indices.size)\n    var\n    targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return\n    result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n\npublic fun\n    FloatArray.sliceArray(indices: Collection<Int>): FloatArray {\n    val result = FloatArray(indices.size)\n    var\n    targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return\n    result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n\npublic fun\n    DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray {\n    val result = DoubleArray(indices.size)\n    var\n    targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] =\n        this[sourceIndex]\n    }\n    return result\n}\n\n/**\n * Returns an array containing elements of this array at\n    specified [indices].\n */\n\npublic fun BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {\n    val result = BooleanArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n}\n\n/**\n * Returns an array containing elements\n    of this array at specified [indices].\n */\n\npublic fun CharArray.sliceArray(indices: Collection<Int>): CharArray {\n    val result = CharArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n}\n\n/**\n * Returns an array containing elements\n    at indices in the specified [indices] range.\n */\n\npublic fun <T> Array<T>.sliceArray(indices: IntRange): Array<T>\n    {\n    if (indices.isEmpty()) return copyOfRange(0, 0)\n    return copyOfRange(indices.start,\n        indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices]\n    range.\n */\n\npublic fun ByteArray.sliceArray(indices: IntRange): ByteArray {\n    if (indices.isEmpty()) return\n    ByteArray(0)\n    return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array\n    containing elements at indices in the specified [indices] range.\n */\n\npublic fun ShortArray.sliceArray(indices:\n    IntRange): ShortArray {\n    if (indices.isEmpty()) return ShortArray(0)\n    return copyOfRange(indices.start,\n        indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements\n    at indices in the specified [indices]\n    range.\n */\n\npublic fun IntArray.sliceArray(indices: IntRange): IntArray {\n    if (indices.isEmpty()) return\n    IntArray(0)\n    return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array\n    containing elements at indices in the specified [indices] range.\n */\n\npublic fun LongArray.sliceArray(indices:\n    IntRange): LongArray {\n    if (indices.isEmpty()) return LongArray(0)\n    return copyOfRange(indices.start,\n        indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices]\n    range.\n */\n\npublic fun FloatArray.sliceArray(indices: IntRange): FloatArray {\n    if (indices.isEmpty()) return\n    FloatArray(0)\n    return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array\n    containing elements at indices in the specified [indices] range.\n */\n\npublic fun DoubleArray.sliceArray(indices:\n    IntRange): DoubleArray {\n    if (indices.isEmpty()) return DoubleArray(0)\n    return copyOfRange(indices.start,\n        indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices]\n    range.\n */\n\npublic fun BooleanArray.sliceArray(indices: IntRange): BooleanArray {\n    if (indices.isEmpty())\n    return BooleanArray(0)\n    return copyOfRange(indices.start, indices.endInclusive +

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1)\n\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
CharArray.sliceArray(indices: IntRange): CharArray {\n    if (indices.isEmpty()) return CharArray(0)\n    return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n\n/**\n * Returns a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.take(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<T>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is
negative.\n */\n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun
ByteArray.take(n: Int): List<Byte> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if
(n == 0) return emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n
val list = ArrayList<Byte>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n
    }\n    return list\n}\n\n\n/**\n * Returns a list containing first [n] elements.\n */\n * @throws
IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.take(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Short>(n)\n    for
(item
in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n\n/**\n * Returns a list
containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.take(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Int>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.take(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element
count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >= size) return toList()\n    if (n == 1)
return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Long>(n)\n    for (item in this) {\n
list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n\n/**\n * Returns a list containing first
[n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.take(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Float>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws
IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.take(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Double>(n)\n
for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n\n/**\n *
Returns a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.take(n: Int):
List<Boolean> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return
emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n
val list = ArrayList<Boolean>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n
break\n    }\n    return list\n}\n\n\n/**\n * Returns a list containing first [n] elements.\n */\n * @throws

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IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^npublic fun CharArray.take(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Char>(n)\n
for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^npublic fun <T> Array<out T>.takeLast(n:
Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return
emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list
= ArrayList<T>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n *^npublic fun ByteArray.takeLast(n: Int):
List<Byte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return
emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list
= ArrayList<Byte>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n
* \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^npublic fun ShortArray.takeLast(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Short>(n)\n
for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^npublic fun IntArray.takeLast(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val
list = ArrayList<Int>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n *^npublic fun LongArray.takeLast(n: Int):
List<Long> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return
emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list
= ArrayList<Long>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n *^npublic fun FloatArray.takeLast(n: Int):
List<Float> {\n require(n >= 0) { \"Requested element count
$ n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if
(n == 1) return listOf(this[size - 1])\n val list = ArrayList<Float>(n)\n for (index in size - n until size)\n
list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^npublic fun DoubleArray.takeLast(n: Int): List<Double>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val
size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list =
ArrayList<Double>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n
* \n * @sample samples.collections.Collections.Transformations.take\n *^npublic fun BooleanArray.takeLast(n:
Int): List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return
emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list
= ArrayList<Boolean>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *

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@sample samples.collections.Collections.Transformations.take\n *\npublic fun CharArray.takeLast(n: Int):
List<Char> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return
emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list
= ArrayList<Char>(n)\n    for (index in size
- n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic
inline fun <T> Array<out T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n    for (index in lastIndex
downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun ByteArray.takeLastWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n
return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\npublic inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {\n    for (index in
lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n
return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun IntArray.takeLastWhile(predicate: (Int)
-> Boolean): List<Int> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n           
return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic
inline fun LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {\n    for (index in lastIndex
downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun FloatArray.takeLastWhile(predicate: (Float)
-> Boolean): List<Float> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n
return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic
inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {\n    for (index in lastIndex
downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun BooleanArray.takeLastWhile(predicate: (Boolean)
-> Boolean): List<Boolean> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n
return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic
inline fun CharArray.takeLastWhile(predicate: (Char) -> Boolean): List<Char> {\n    for (index in lastIndex
downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return
toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun <T> Array<out T>.takeWhile(predicate: (T)
-> Boolean): List<T> {\n    val list
= ArrayList<T>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n
return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun ByteArray.takeWhile(predicate: (Byte)
-> Boolean): List<Byte> {\n    val list = ArrayList<Byte>()\n    for (item in this) {\n        if (!predicate(item))\n
break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic
inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {\n    val list = ArrayList<Short>()\n
for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return
list\n}\n\n/**\n * Returns a

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list containing first

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elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n*\npublic inline fun IntArray.takeWhile(predicate: (Int) -> Boolean): List<Int> {\n    val list = ArrayList<Int>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\npublic inline fun LongArray.takeWhile(predicate:\n(Long) -> Boolean): List<Long> {\n    val list = ArrayList<Long>()\n    for (item in this) {\n        if\n(!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first\n * elements satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\npublic inline fun FloatArray.takeWhile(predicate: (Float) -> Boolean): List<Float>\n{\n    val list = ArrayList<Float>()\n    for (item in this) {\n        if (!predicate(item))\n            break\nlist.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given\n [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\npublic inline fun\nDoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {\n    val list = ArrayList<Double>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\npublic inline fun BooleanArray.takeWhile(predicate:\n(Boolean) -> Boolean): List<Boolean> {\n    val list = ArrayList<Boolean>()\n    for (item in this) {\n        if\n(!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\npublic inline fun CharArray.takeWhile(predicate: (Char)\n-> Boolean): List<Char> {\n    val list = ArrayList<Char>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic\nfun <T> Array<T>.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var\nreverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] =\nthis[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the\n * array in-place.\n */\npublic fun ByteArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0)\nreturn\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint)\n{\n    val tmp = this[index]\n    this[index] = this[reverseIndex]\n    this[reverseIndex] = tmp\nreverseIndex--\n}\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun ShortArray.reverse():\nUnit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in\n0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\nreverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun IntArray.reverse():\nUnit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in\n0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\nreverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun LongArray.reverse():\nUnit {\n    val\nmidPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint)\n{\n    val tmp = this[index]\n    this[index] = this[reverseIndex]\n    this[reverseIndex] = tmp\nreverseIndex--\n}\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun FloatArray.reverse():\nUnit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in\n0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\nreverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun\nDoubleArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex =\nlastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\nthis[reverseIndex] = tmp\nreverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun BooleanArray.reverse(): Unit {\n    val\nmidPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint)
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{\n    val tmp = this[index]\n    this[index] = this[reverseIndex]\n    this[reverseIndex] = tmp\nreverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun CharArray.reverse():\nUnit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in\n0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n */\n * @param\nfromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to\nreverse.\n * @throws IndexOutOfBoundsException\n    if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws\nIllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun <T>\nArray<T>.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex,\nsize)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex =\ntoIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] =\nthis[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the\narray in the specified range in-place.\n */\n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * @throws IndexOutOfBoundsException\n    if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws\nIllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun\nByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex,\nsize)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex =\ntoIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] =\nthis[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the\narray in the specified range in-place.\n */\n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * @throws IndexOutOfBoundsException\n    if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws\nIllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun\nShortArray.reverse(fromIndex:\nInt, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint =\n(fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in\nfromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the specified\nrange in-place.\n */\n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end\nof the range (exclusive) to reverse.\n * @throws IndexOutOfBoundsException\n    if [fromIndex] is less than zero\nor [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException\n    if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun IntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex = toIndex -\n1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the specified\nrange in-place.\n */\n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end\nof the range (exclusive) to reverse.\n * @throws IndexOutOfBoundsException\n    if [fromIndex] is less than zero\nor [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException\n    if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun LongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if\n(fromIndex == midPoint) return\n    var reverseIndex = toIndex\n- 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] =\nthis[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the\narray in the specified range in-place.\n */\n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * @throws IndexOutOfBoundsException\n    if

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[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic fun
FloatArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex =
toIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] =
this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the
specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param
toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic fun DoubleArray.reverse(fromIndex: Int,
toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex
+ toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex
until midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] =
tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements
of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to
reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic fun
BooleanArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var
reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n
this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses
elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to
reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic fun
CharArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var
reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n
this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Returns a
list with elements in reversed order.\n */\npublic fun <T> Array<out T>.reversed(): List<T> {\n    if (isEmpty())
return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list
with elements in reversed order.\n */\npublic fun ByteArray.reversed(): List<Byte> {\n    if (isEmpty()) return
emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements
in reversed order.\n */\npublic fun ShortArray.reversed(): List<Short> {\n    if (isEmpty()) return emptyList()\n    val
list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*/\npublic fun IntArray.reversed(): List<Int> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
LongArray.reversed(): List<Long> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
FloatArray.reversed(): List<Float> {\n    if (isEmpty()) return
emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements
in reversed order.\n */\npublic fun DoubleArray.reversed(): List<Double> {\n    if (isEmpty()) return emptyList()\n
val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed
order.\n */\npublic fun BooleanArray.reversed(): List<Boolean> {\n    if (isEmpty()) return emptyList()\n    val list =
toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*/\npublic fun CharArray.reversed(): List<Char> {\n    if (isEmpty()) return emptyList()\n    val list =

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toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns an array with elements of this array in
reversed order.\n */\npublic fun <T> Array<T>.reversedArray(): Array<T> {\n if (isEmpty()) return this\n val
result = arrayOfNulls(this, size)\n val lastIndex = lastIndex\n
for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with
elements of this array in reversed order.\n */\npublic fun ByteArray.reversedArray(): ByteArray {\n if (isEmpty())
return this\n val result = ByteArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n
result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed
order.\n */\npublic fun ShortArray.reversedArray(): ShortArray {\n if (isEmpty()) return this\n val result =
ShortArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return
result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun
IntArray.reversedArray(): IntArray {\n if (isEmpty()) return this\n val result = IntArray(size)\n val lastIndex =
lastIndex\n for (i in 0..lastIndex)\n
result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed
order.\n */\npublic fun LongArray.reversedArray(): LongArray {\n if (isEmpty()) return this\n val result =
LongArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return
result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun
FloatArray.reversedArray(): FloatArray {\n if (isEmpty()) return this\n val result = FloatArray(size)\n val
lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n *
Returns an array with elements of this array in reversed order.\n */\npublic fun DoubleArray.reversedArray():
DoubleArray {\n if (isEmpty()) return this\n val result = DoubleArray(size)\n val lastIndex = lastIndex\n for
(i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n
return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun
BooleanArray.reversedArray(): BooleanArray {\n if (isEmpty()) return this\n val result = BooleanArray(size)\n
val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n *
Returns an array with elements of this array in reversed order.\n */\npublic fun CharArray.reversedArray():
CharArray {\n if (isEmpty()) return this\n val result = CharArray(size)\n val lastIndex = lastIndex\n for (i in
0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Randomly shuffles elements in this
array in-place.\n */\n@SinceKotlin("1.4")\npublic fun <T> Array<T>.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun ByteArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun ShortArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun IntArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun LongArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun FloatArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun DoubleArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun BooleanArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n */\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.\n */\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
}

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```
*\n@SinceKotlin("1.4")\npublic fun ByteArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
```

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun ShortArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
```

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun IntArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
```

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun LongArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
```

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun FloatArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
```

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
```

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun BooleanArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
```

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun CharArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Sorts elements in the array in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -> R?): Unit {\n    if (size > 1) sortByDescending(selector)\n}\n\n/**\n * Sorts elements in the array in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n    if (size > 1) sortByDescending(selector)\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\npublic fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {\n
```

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sortWith(reverseOrder())\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural
sort order.\n */\npublic fun ByteArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun
ShortArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts
elements in the array in-place descending according to their natural
sort order.\n */\npublic fun IntArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun
LongArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts
elements in the array in-place descending according to their natural sort order.\n */\npublic fun
FloatArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts
elements in the array in-place descending according to their natural sort order.\n */\npublic fun
DoubleArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts
elements in the array in-place descending according to their natural sort order.\n */\npublic fun
CharArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n *
Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means
that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>>
Array<out T>.sorted(): List<T> {\n    return sortedArray().asList()\n}\n\n/**\n * Returns a list of all elements sorted
according to their natural sort order.\n */\npublic fun ByteArray.sorted(): List<Byte> {\n    return
toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural
sort order.\n */\npublic fun ShortArray.sorted(): List<Short> {\n    return toTypedArray().apply { sort()
}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun
IntArray.sorted(): List<Int> {\n    return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all
elements sorted according to their natural sort order.\n */\npublic fun
LongArray.sorted(): List<Long> {\n    return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of
all elements sorted according to their natural sort order.\n */\npublic fun FloatArray.sorted(): List<Float> {\n
return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their
natural sort order.\n */\npublic fun DoubleArray.sorted(): List<Double> {\n    return toTypedArray().apply { sort()
}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun
CharArray.sorted(): List<Char> {\n    return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns an array
with all elements of this array sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that
equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>>
Array<T>.sortedArray(): Array<T> {\n    if (isEmpty()) return
this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted
according to their natural sort order.\n */\npublic fun ByteArray.sortedArray(): ByteArray {\n    if (isEmpty()) return
this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted
according to their natural sort order.\n */\npublic fun ShortArray.sortedArray(): ShortArray {\n    if (isEmpty())
return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array
sorted according to their natural sort order.\n */\npublic fun IntArray.sortedArray(): IntArray {\n    if (isEmpty())
return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array
sorted according to their natural sort order.\n */\npublic fun LongArray.sortedArray(): LongArray {\n    if
(isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun
FloatArray.sortedArray(): FloatArray {\n    if (isEmpty()) return this\n    return this.copyOf().apply { sort()
}\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n
public fun DoubleArray.sortedArray(): DoubleArray {\n    if (isEmpty()) return this\n    return
this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their
natural sort order.\n */\npublic fun CharArray.sortedArray(): CharArray {\n    if (isEmpty()) return this\n    return
this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending

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according to their natural sort order.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*\npublic fun <T : Comparable<T>> Array<T>.sortedArrayDescending(): Array<T> {\n if (isEmpty()) return this\n return this.copyOf().apply { sortWith(reverseOrder()) }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted descending according to their natural sort order.\n \*\npublic fun ByteArray.sortedArrayDescending(): ByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted descending according to their natural sort order.\n \*\npublic fun ShortArray.sortedArrayDescending(): ShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted descending according to their natural sort order.\n \*\npublic fun IntArray.sortedArrayDescending(): IntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted descending according to their natural sort order.\n \*\npublic fun LongArray.sortedArrayDescending(): LongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted descending according to their natural sort order.\n \*\npublic fun FloatArray.sortedArrayDescending(): FloatArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted descending according to their natural sort order.\n \*\npublic fun DoubleArray.sortedArrayDescending(): DoubleArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted descending according to their natural sort order.\n \*\npublic fun CharArray.sortedArrayDescending(): CharArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted according the specified [comparator].\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*\npublic fun <T> Array<out T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T> {\n if (isEmpty()) return this\n return this.copyOf().apply { sortWith(comparator) }\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*\npublic inline fun <R : Comparable<R>> ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*\npublic inline fun <R : Comparable<R>> ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*\npublic inline fun <R : Comparable<R>> IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*\npublic inline fun <R : Comparable<R>> LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*\npublic inline fun <R : Comparable<R>> FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {\n return

sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*/\npublic inline fun <R : Comparable<R>> DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*/\npublic inline fun <R : Comparable<R>> BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*/\npublic inline fun <R : Comparable<R>> CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*/\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> BooleanArray.sortedByDescending(crossinline selector: (Boolean) -> R?): List<Boolean> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*/\npublic fun <T : Comparable<T>> Array<out T>.sortedDescending(): List<T> {\n return sortedWith(reverseOrder())\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \*/\npublic fun ByteArray.sortedDescending(): List<Byte> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \*/\n

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*\npublic fun ShortArray.sortedDescending(): List<Short> {\n  return copyOf().apply { sort()
}.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n
*\npublic fun IntArray.sortedDescending(): List<Int> {\n  return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n
*\npublic fun LongArray.sortedDescending(): List<Long> {\n  return copyOf().apply { sort()
}.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n
*\npublic fun FloatArray.sortedDescending(): List<Float> {\n  return copyOf().apply { sort()
}.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n
*\npublic fun DoubleArray.sortedDescending(): List<Double> {\n  return copyOf().apply { sort()
}.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n
*\npublic fun CharArray.sortedDescending(): List<Char> {\n  return copyOf().apply { sort()
}.reversed()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n * \n * The
sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n
*\npublic fun
<T> Array<out T>.sortedWith(comparator:
Comparator<in T>): List<T> {\n  return sortedArrayWith(comparator).asList()\n}\n\n/**\n * Returns a list of all
elements sorted according to the specified [comparator].\n
*\npublic fun ByteArray.sortedWith(comparator:
Comparator<in Byte>): List<Byte> {\n  return toTypedArray().apply { sortWith(comparator)
}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n
*\npublic fun
ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> {\n  return toTypedArray().apply {
sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified
[comparator].\n
*\npublic fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> {\n  return
toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according
to the specified [comparator].\n
*\npublic fun LongArray.sortedWith(comparator: Comparator<in Long>):
List<Long>
{\n  return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements
sorted according to the specified [comparator].\n
*\npublic fun FloatArray.sortedWith(comparator: Comparator<in
Float>): List<Float> {\n  return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a
list of all elements sorted according to the specified [comparator].\n
*\npublic fun
DoubleArray.sortedWith(comparator: Comparator<in Double>): List<Double> {\n  return toTypedArray().apply {
sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified
[comparator].\n
*\npublic fun BooleanArray.sortedWith(comparator: Comparator<in Boolean>): List<Boolean>
{\n  return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements
sorted according to the specified [comparator].\n
*\npublic fun CharArray.sortedWith(comparator: Comparator<in
Char>): List<Char>
{\n  return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a [List] that wraps the
original array.\n
*\npublic expect fun <T> Array<out T>.asList(): List<T>{\n\n/**\n * Returns a [List] that wraps
the original array.\n
*\npublic expect fun ByteArray.asList(): List<Byte>{\n\n/**\n * Returns a [List] that wraps the
original array.\n
*\npublic expect fun ShortArray.asList(): List<Short>{\n\n/**\n * Returns a [List] that wraps the
original array.\n
*\npublic expect fun IntArray.asList(): List<Int>{\n\n/**\n * Returns a [List] that wraps the original
array.\n
*\npublic expect fun LongArray.asList(): List<Long>{\n\n/**\n * Returns a [List] that wraps the original
array.\n
*\npublic expect fun FloatArray.asList(): List<Float>{\n\n/**\n * Returns a [List] that wraps the original
array.\n
*\npublic expect fun DoubleArray.asList(): List<Double>{\n\n/**\n * Returns a [List] that wraps the
original array.\n
*\npublic expect fun BooleanArray.asList(): List<Boolean>{\n\n/**\n * Returns a [List] that wraps the original
array.\n
*\npublic expect fun CharArray.asList(): List<Char>{\n\n/**\n * Returns `true` if the two specified arrays are
*deeply* equal to one another,\n * i.e. contain the same number of the
same elements in the same order.\n * \n * If two corresponding elements are nested arrays, they are also compared
deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of
other types are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it

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means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

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*\/n@SinceKotlin("1.1")\/n@kotlin.internal.LowPriorityInOverloadResolution\/npublic expect infix fun <T>
Array<out T>.contentDeepEquals(other: Array<out T>): Boolean\/n\/n**\/n * Returns `true` if the two specified
arrays are *deeply* equal to one another,\/n * i.e. contain the same number of the same elements in the same order.\/n
*\/n
* The specified arrays are also considered deeply equal if both are `null`.\/n *\/n * If two corresponding elements are
nested arrays, they are also compared deeply.\/n * If any of arrays contains itself on any nesting level the behavior is
undefined.\/n *\/n * The elements of other types are compared for equality with the [equals][Any.equals] function.\/n
* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\/n
*\/n@SinceKotlin("1.4")\/npublic expect infix fun <T> Array<out T>?.contentDeepEquals(other: Array<out T>?):
Boolean\/n\/n**\/n * Returns a hash code based on the contents of this array as if it is [List].\/n * Nested arrays are
treated as lists too.\/n *\/n * If any of arrays contains itself on any nesting level the behavior is undefined.\/n
*\/n@SinceKotlin("1.1")\/n@kotlin.internal.LowPriorityInOverloadResolution\/npublic expect fun <T> Array<out
T>.contentDeepHashCode(): Int\/n\/n**\/n * Returns a hash code based on the contents of this
array as if it is [List].\/n * Nested arrays are treated as lists too.\/n *\/n * If any of arrays contains itself on any nesting
level the behavior is undefined.\/n *\/n@SinceKotlin("1.4")\/npublic expect fun <T> Array<out
T>?.contentDeepHashCode(): Int\/n\/n**\/n * Returns a string representation of the contents of this array as if it is a
[List].\/n * Nested arrays are treated as lists too.\/n *\/n * If any of arrays contains itself on any nesting level that
reference\/n * is rendered as `"[...]"` to prevent recursion.\/n *\/n * @sample
samples.collections.Arrays.ContentOperations.contentDeepToString\/n
*\/n@SinceKotlin("1.1")\/n@kotlin.internal.LowPriorityInOverloadResolution\/npublic expect fun <T> Array<out
T>.contentDeepToString(): String\/n\/n**\/n * Returns a string representation of the contents of this array as if it is a
[List].\/n * Nested arrays are treated as lists too.\/n *\/n * If any of arrays contains itself on any nesting level that
reference\/n * is rendered as `"[...]"` to
prevent recursion.\/n *\/n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\/n
*\/n@SinceKotlin("1.4")\/npublic expect fun <T> Array<out T>?.contentDeepToString(): String\/n\/n**\/n * Returns
`true` if the two specified arrays are *structurally* equal to one another,\/n * i.e. contain the same number of the
same elements in the same order.\/n *\/n * The elements are compared for equality with the [equals][Any.equals]
function.\/n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\/n
*\/n@SinceKotlin("1.4")\/npublic expect infix fun <T> Array<out T>?.contentEquals(other: Array<out T>?):
Boolean\/n\/n**\/n * Returns `true` if the two specified arrays are *structurally* equal to one another,\/n * i.e. contain
the same number of the same elements in the same order.\/n *\/n * The elements are compared for equality with the
[equals][Any.equals] function.\/n * For floating point numbers it means that `NaN` is equal to itself and
`-0.0` is not equal to `0.0`.\/n *\/n@SinceKotlin("1.4")\/npublic expect infix fun ByteArray?.contentEquals(other:
ByteArray?): Boolean\/n\/n**\/n * Returns `true` if the two specified arrays are *structurally* equal to one another,\/n
* i.e. contain the same number of the same elements in the same order.\/n *\/n * The elements are compared for
equality with the [equals][Any.equals] function.\/n * For floating point numbers it means that `NaN` is equal to itself
and `-0.0` is not equal to `0.0`.\/n *\/n@SinceKotlin("1.4")\/npublic expect infix fun
ShortArray?.contentEquals(other: ShortArray?): Boolean\/n\/n**\/n * Returns `true` if the two specified arrays are
*structurally* equal to one another,\/n * i.e. contain the same number of the same elements in the same order.\/n *\/n
* The elements are compared for equality with the [equals][Any.equals] function.\/n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\/n *\/n@SinceKotlin("1.4")\/npublic
expect infix fun IntArray?.contentEquals(other: IntArray?): Boolean\/n\/n**\/n * Returns `true` if the two specified
arrays are *structurally* equal to one another,\/n * i.e. contain the same number of the same elements in the same
order.\/n *\/n * The elements are compared for equality with the [equals][Any.equals] function.\/n * For floating point
numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\/n *\/n@SinceKotlin("1.4")\/npublic
expect infix fun LongArray?.contentEquals(other: LongArray?): Boolean\/n\/n**\/n * Returns `true` if the two
specified arrays are *structurally* equal to one another,\/n * i.e. contain the same number of the same elements in the

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same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

\*\n@SinceKotlin("1.4")\npublic expect infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*\n@SinceKotlin("1.4")\npublic expect infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*\n@SinceKotlin("1.4")\npublic expect infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*\n@SinceKotlin("1.4")\npublic expect infix fun CharArray?.contentEquals(other: CharArray?): Boolean\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.4")\npublic expect fun ByteArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.4")\npublic expect fun ShortArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.4")\npublic expect fun IntArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.4")\npublic expect fun LongArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.4")\npublic expect fun FloatArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.4")\npublic expect fun DoubleArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.4")\npublic expect fun BooleanArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*\n@SinceKotlin("1.4")\npublic expect fun CharArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.4")\npublic expect fun ByteArray?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.4")\npublic expect fun ShortArray?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.4")\npublic expect fun IntArray?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.4")\npublic expect fun LongArray?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.4")\npublic expect fun FloatArray?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*\n@SinceKotlin("1.4")\npublic expect fun

`DoubleArray?.contentToString(): String`\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*/\n@SinceKotlin("1.4")\npublic expect fun BooleanArray?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*/\n@SinceKotlin("1.4")\npublic expect fun CharArray?.contentToString(): String\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n@SinceKotlin("1.3")\npublic expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n@SinceKotlin("1.3")\npublic expect fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n@SinceKotlin("1.3")\npublic expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n@SinceKotlin("1.3")\npublic



expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* \n \* @return the [destination] array.\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun

@param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \* \n \* @SinceKotlin("1.3")\npublic expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray\n\n\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* @Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.copyOf(): Array<T>\n\n\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* public expect fun ByteArray.copyOf(): ByteArray\n\n\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* public expect fun ShortArray.copyOf(): ShortArray\n\n\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* public expect fun IntArray.copyOf(): IntArray\n\n\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* public expect fun LongArray.copyOf(): LongArray\n\n\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* public expect fun FloatArray.copyOf(): FloatArray\n\n\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* public expect fun DoubleArray.copyOf(): DoubleArray\n\n\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* public expect fun BooleanArray.copyOf(): BooleanArray\n\n\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* public expect fun CharArray.copyOf(): CharArray\n\n\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \* \n \* public expect fun ByteArray.copyOf(newSize: Int): ByteArray\n\n\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \* \n \* public expect fun ShortArray.copyOf(newSize: Int): ShortArray\n\n\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \* \n \* public expect fun IntArray.copyOf(newSize: Int): IntArray\n\n\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \* \n \* public expect fun LongArray.copyOf(newSize: Int): LongArray

Int): LongArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun FloatArray.copyOf(newSize: Int): FloatArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun DoubleArray.copyOf(newSize: Int): DoubleArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with `false` values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun BooleanArray.copyOf(newSize: Int): BooleanArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with null char (`\u0000`) values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\u0000`) values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun CharArray.copyOf(newSize: Int): CharArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with `null` values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n \*/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.copyOf(newSize: Int): Array<T?>\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T>\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException

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if [fromIndex] is greater than [toIndex].\n */\npublic expect fun IntArray.copyOfRange(fromIndex: Int, toIndex:
Int): IntArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic
expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray\n\n/**\n * Returns a new array which
is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to
copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size
of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect
fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray\n\n/**\n * Returns a new array which is a
copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to
copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun
DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray\n\n/**\n * Returns a new array which is a
copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to
copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than
zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is
greater than [toIndex].\n */\npublic expect fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int):
BooleanArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic
expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray\n\n/**\n * Fills this array or its
subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0
by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n
* \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n\n@SinceKotlin("1.3")\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int =
size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex
the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size
of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n */\n\n@SinceKotlin("1.3")\npublic expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0,
toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element]
value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end
of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.3")\npublic expect fun
ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its
subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0
by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n\n@SinceKotlin("1.3")\npublic

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expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n**\n * Fills this array or its
subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0
by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\npublic expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int =
size): Unit\n\n**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex
the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size
of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex]
is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\npublic expect fun FloatArray.fill(element: Float,
fromIndex: Int = 0, toIndex: Int = size): Unit\n\n**\n * Fills this array or its subrange with the specified [element]
value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end
of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\npublic expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n**\n * Fills this array or its
subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\npublic expect fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int
= size): Unit\n\n**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\npublic expect fun CharArray.fill(element:
Char, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n**\n * Returns the range of valid indices for the array.\n
*\npublic val <T> Array<out T>.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n**\n * Returns the range
of valid indices for the array.\n
*\npublic val ByteArray.indices: IntRange\n    get() = IntRange(0,
lastIndex)\n\n**\n * Returns the range of valid indices for the array.\n
*\npublic val ShortArray.indices:
IntRange\n    get() = IntRange(0, lastIndex)\n\n**\n * Returns the range of valid indices for the array.\n
*\npublic val IntArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n**\n * Returns the range of valid indices for
the array.\n
*\npublic val LongArray.indices: IntRange\n    get() = IntRange(0,
lastIndex)\n\n**\n * Returns the range of valid indices for the array.\n
*\npublic val FloatArray.indices: IntRange\n    get() = IntRange(0,
lastIndex)\n\n**\n * Returns the range of valid indices for the array.\n
*\npublic val DoubleArray.indices:
IntRange\n    get() = IntRange(0, lastIndex)\n\n**\n * Returns the range of valid indices for the array.\n
*\npublic val BooleanArray.indices: IntRange\n    get() = IntRange(0,
lastIndex)\n\n**\n * Returns the range of valid indices for the array.\n
*\npublic val CharArray.indices: IntRange\n    get() = IntRange(0,
lastIndex)\n\n**\n * Returns
`true` if the array is empty.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isEmpty():
Boolean {\n    return size == 0\n}\n\n**\n * Returns `true` if the array is empty.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isEmpty(): Boolean {\n    return size == 0\n}\n\n**\n
* Returns `true` if the array is empty.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isEmpty():
Boolean {\n    return size == 0\n}\n\n**\n * Returns `true` if the array is empty.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isEmpty(): Boolean {\n    return size == 0\n}\n\n**\n
Returns
`true` if the array is empty.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isEmpty(): Boolean {\n
return size == 0\n}\n\n**\n * Returns `true` if the array is empty.\n
*\n@kotlin.internal.InlineOnly\npublic inline

```

```

fun FloatArray.isEmpty(): Boolean {\n  return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isEmpty(): Boolean {\n  return size ==\n  0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun\n BooleanArray.isEmpty(): Boolean {\n  return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isEmpty(): Boolean {\n  return size == 0\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out\n T>.isNotEmpty(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not\n  empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isNotEmpty(): Boolean {\n  return\n  !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline\n fun ShortArray.isNotEmpty(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not\n  empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isNotEmpty(): Boolean {\n  return\n  !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline\n fun LongArray.isNotEmpty(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not\n  empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isNotEmpty(): Boolean {\n  return\n  !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not\n  empty.\n */\n@kotlin.internal.InlineOnly\npublic inline\n fun DoubleArray.isNotEmpty(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not\n  empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isNotEmpty(): Boolean {\n  return\n  !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline\n fun CharArray.isNotEmpty(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns the last valid index for the\n  array.\n */\npublic val <T> Array<out T>.lastIndex: Int\n  get() = size - 1\n\n/**\n * Returns the last valid index\n  for the array.\n */\npublic val ByteArray.lastIndex: Int\n  get() = size - 1\n\n/**\n * Returns the last valid index for\n  the array.\n */\npublic val ShortArray.lastIndex: Int\n  get() = size - 1\n\n/**\n * Returns the last valid index for\n  the array.\n */\npublic val IntArray.lastIndex: Int\n  get() = size - 1\n\n/**\n * Returns the last valid index for\n  the array.\n */\npublic val LongArray.lastIndex: Int\n  get() = size - 1\n\n/**\n * Returns the last valid index for\n  the array.\n */\npublic val FloatArray.lastIndex: Int\n  get()\n  = size - 1\n\n/**\n * Returns the last valid index for\n  the array.\n */\npublic val DoubleArray.lastIndex: Int\n  get()\n  = size - 1\n\n/**\n * Returns the last valid index for\n  the array.\n */\npublic val BooleanArray.lastIndex: Int\n  get()\n  = size - 1\n\n/**\n * Returns the last valid index for\n  the array.\n */\npublic val CharArray.lastIndex: Int\n  get() =\n  size - 1\n\n/**\n * Returns an array containing all\n  elements of the original array and\n  then the given [element].\n */\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun <T> Array<T>.plus(element: T):\n Array<T>\n\n/**\n * Returns an array containing all\n  elements of the original array and\n  then the given [element].\n */\npublic expect operator fun ByteArray.plus(element: Byte):\n ByteArray\n\n/**\n * Returns an array containing all\n  elements of the original array and\n  then the given [element].\n */\npublic expect operator fun\n ShortArray.plus(element: Short):\n ShortArray\n\n/**\n * Returns an array containing all\n  elements of\n  the original array and then the given [element].\n */\npublic expect operator fun IntArray.plus(element: Int):\n IntArray\n\n/**\n * Returns an array containing all\n  elements of the original array and\n  then the given [element].\n */\npublic expect operator fun LongArray.plus(element: Long):\n LongArray\n\n/**\n * Returns an array containing\n  all elements of the original array\n  and then the given [element].\n */\npublic expect operator fun\n FloatArray.plus(element: Float):\n FloatArray\n\n/**\n * Returns an array containing all\n  elements of the original array and\n  then the given [element].\n */\npublic expect operator fun\n DoubleArray.plus(element: Double):\n DoubleArray\n\n/**\n * Returns an array containing all\n  elements of the original array and\n  then the given [element].\n */\npublic expect operator fun\n BooleanArray.plus(element: Boolean):\n BooleanArray\n\n/**\n * Returns an array containing all\n  elements of the original array and\n  then the given [element].\n */\npublic expect operator fun\n CharArray.plus(element:\n  Char):\n CharArray\n\n/**\n * Returns an array containing all\n  elements of the original array and\n  then all elements of the given\n  [elements] collection.\n */\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun\n <T> Array<T>.plus(elements: Collection<T>):\n Array<T>\n\n/**\n * Returns an array containing all\n  elements of the original array and\n  then all elements of the given\n  [elements] collection.\n */\npublic expect operator fun

```

ByteArray.plus(elements: Collection<Byte>): ByteArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun

ShortArray.plus(elements: Collection<Short>): ShortArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun

IntArray.plus(elements: Collection<Int>): IntArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun

LongArray.plus(elements: Collection<Long>): LongArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun

FloatArray.plus(elements: Collection<Float>): FloatArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun

DoubleArray.plus(elements: Collection<Double>): DoubleArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun

BooleanArray.plus(elements: Collection<Boolean>): BooleanArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun

CharArray.plus(elements: Collection<Char>): CharArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n

\*\/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun

ByteArray.plus(elements: ByteArray): ByteArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun

ShortArray.plus(elements: ShortArray): ShortArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun

IntArray.plus(elements: IntArray): IntArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun

LongArray.plus(elements: LongArray): LongArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun

FloatArray.plus(elements: FloatArray): FloatArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun

DoubleArray.plus(elements: DoubleArray): DoubleArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun

BooleanArray.plus(elements: BooleanArray): BooleanArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun

CharArray.plus(elements: CharArray): CharArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n

\*\/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.plusElement(element: T): Array<T>\n\n/\*\*\n \* Sorts the array in-place.\n \*/\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n

\*\/\npublic expect fun IntArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place.\n \*/\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n

\*\/\npublic expect fun LongArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place.\n \*/\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n

\*\/\npublic expect fun ByteArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place.\n \*/\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n

\*\/\npublic expect fun ShortArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place.\n \*/\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n

\*\/\npublic expect fun DoubleArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place.\n \*/\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n

\*\/\npublic expect fun FloatArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place.\n \*/\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n

\*\/\npublic expect fun CharArray.sort(): Unit\n\n/\*\*\n \* Sorts the

array in-place according to the natural order of its elements.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \* \n \* @sample

```

samples.collections.Arrays.Sorting.sortArrayOfComparable\n * \n\npublic expect fun <T : Comparable<T>>
Array<out T>.sort(): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * The sort is _stable_. It means that
equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeArrayOfComparable\n * \n\n@SinceKotlin("1.4")\n\npublic
expect fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n * \n\n@SinceKotlin("1.4")\n\npublic expect fun
ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n *
@param fromIndex
the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort,
size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n\n@SinceKotlin("1.4")\n\npublic expect fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n
* Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by
default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n\n@SinceKotlin("1.4")\n\npublic expect fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n
* Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by
default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n\n@SinceKotlin("1.4")\n\npublic expect fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n
* Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by
default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n\n@SinceKotlin("1.4")\n\npublic expect fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n
* Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by
default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n\n@SinceKotlin("1.4")\n\npublic expect fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size):
Unit\n\n/**\n * Sorts
a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws

```



```

IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n *^\n@SinceKotlin("1.4")\npublic expect fun
CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts elements of the array in the specified
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * The sort is
_stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n
* \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*^\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.sortDescending(fromIndex: Int,
toIndex: Int): Unit {\n    sortWith(reverseOrder(), fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in
the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n *
@param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to
sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*^\n@SinceKotlin("1.4")\npublic fun ByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
    sort(fromIndex, toIndex)\n
    reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The
elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the
range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.4")\npublic
fun ShortArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n
    reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The
elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the
range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.4")\npublic
fun IntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n
    reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The
elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the
range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.4")\npublic
fun LongArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n
    reverse(fromIndex,
    toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted
descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to
sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.4")\npublic fun
FloatArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n
    reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The
elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the
range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws
IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.4")\npublic fun

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```

DoubleArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
    sort(fromIndex, toIndex)
    reverse(fromIndex, toIndex)
}

reverse(fromIndex, toIndex)

* Sorts elements of the array in the specified range in-place.
* The elements are sorted descending according to their natural sort order.
* @param fromIndex the start of the range (inclusive) to sort.
* @param toIndex the end of the range (exclusive) to sort.
* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

public fun CharArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
    sort(fromIndex, toIndex)
    reverse(fromIndex, toIndex)
}

reverse(fromIndex, toIndex)

* Sorts the array in-place according to the order specified by the given [comparator].
* The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.

public expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit

* Sorts a range in the array in-place with the given [comparator].
* The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
* @param fromIndex the start of the range (inclusive) to sort, 0 by default.
* @param toIndex the end of the range (exclusive) to sort, size of this array by default.
* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

public expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit

* Returns an array of Boolean containing all of the elements of this generic array.

public fun Array<out Boolean>.toBooleanArray(): BooleanArray {
    return BooleanArray(size) { index -> this[index] }
}

* Returns an array of Byte containing all of the elements of this generic array.

public fun Array<out Byte>.toByteArray(): ByteArray {
    return ByteArray(size) { index -> this[index] }
}

* Returns an array of Char containing all of the elements of this generic array.

public fun Array<out Char>.toCharArray(): CharArray {
    return CharArray(size) { index -> this[index] }
}

* Returns an array of Double containing all of the elements of this generic array.

public fun Array<out Double>.toDoubleArray(): DoubleArray {
    return DoubleArray(size) { index -> this[index] }
}

* Returns an array of Float containing all of the elements of this generic array.

public fun Array<out Float>.toFloatArray(): FloatArray {
    return FloatArray(size) { index -> this[index] }
}

* Returns an array of Int containing all of the elements of this generic array.

public fun Array<out Int>.toIntArray(): IntArray {
    return IntArray(size) { index -> this[index] }
}

* Returns an array of Long containing all of the elements of this generic array.

public fun Array<out Long>.toLongArray(): LongArray {
    return LongArray(size) { index -> this[index] }
}

* Returns an array of Short containing all of the elements of this generic array.

public fun Array<out Short>.toShortArray(): ShortArray {
    return ShortArray(size) { index -> this[index] }
}

* Returns a *typed* object array containing all of the elements of this primitive array.

public expect fun ByteArray.toTypedArray(): Array<Byte>

* Returns a *typed* object array containing all of the elements of this primitive array.

public expect fun ShortArray.toTypedArray(): Array<Short>

* Returns a *typed* object array containing all of the elements of this primitive array.

public expect fun IntArray.toTypedArray(): Array<Int>

* Returns a *typed* object array containing all of the elements of this primitive array.

public expect fun LongArray.toTypedArray(): Array<Long>

* Returns a *typed* object array containing all of the elements of this primitive array.

public expect fun FloatArray.toTypedArray(): Array<Float>

* Returns a *typed* object array containing all of the elements of this primitive array.

public expect fun DoubleArray.toTypedArray(): Array<Double>

* Returns a *typed* object array containing all of the elements of this primitive array.

public expect fun BooleanArray.toTypedArray(): Array<Boolean>

* Returns a *typed* object array containing all of the elements of this primitive array.

public expect fun CharArray.toTypedArray(): Array<Char>

Returns a [Map] containing key-value pairs provided by [transform] function
* applied to elements of the given array.
* If any of two pairs would have the same key the last one gets added to the map.
* The returned map preserves the entry iteration order of the original array.
* @sample

```

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\npublic inline fun <T, K, V>
Array<out T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\npublic inline
fun <K, V> ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\npublic inline fun <K, V>
ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original
array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\npublic inline
fun <K, V> IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\npublic inline fun <K, V>
LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K,
V>(capacity), transform)\n}\n\n**\n * Returns a [Map] containing key-value pairs provided by [transform]
function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\npublic inline fun <K, V>
FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n
*\npublic inline fun <K, V> DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\npublic inline fun <K, V>
BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample

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samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *^\npublic inline fun <K, V>
CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *^\npublic inline fun <T, K>
Array<out T>.associateBy(keySelector:
(T) -> K): Map<K, T> {\n  val capacity = mapCapacity(size).coerceAtLeast(16)\n  return
associateByTo(LinkedHashMap<K, T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the
elements from the given array indexed by the key\n * returned from [keySelector] function applied to each
element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to
the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *^\npublic inline fun <K>
ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Byte>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n
* \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n
* \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *^\npublic inline fun <K>
ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Short>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *^\npublic inline fun <K>
IntArray.associateBy(keySelector:
(Int) -> K): Map<K, Int> {\n  val capacity = mapCapacity(size).coerceAtLeast(16)\n  return
associateByTo(LinkedHashMap<K, Int>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the
elements from the given array indexed by the key\n * returned from [keySelector] function applied to each
element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to
the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *^\npublic inline fun <K>
LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Long>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to
each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets
added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *^\npublic inline fun <K>
FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Float>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration

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order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun
<K> DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Double>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Boolean>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from
[keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the
original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n
*/\npublic inline fun <K> CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, Char>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by
[keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*/\npublic inline fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V):
Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return
associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map]
containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of
the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets
added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*/\npublic inline fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V):
Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return
associateByTo(LinkedHashMap<K, V>(capacity), keySelector,
valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed
by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same
key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry
iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*/\npublic inline fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {\n
val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last
one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n *
\n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*/\npublic inline fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V>
{\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by

```

[valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

\* The returned map preserves the entry iteration order of the original array.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
```

public inline fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {

val capacity = mapCapacity(size).coerceAtLeast(16)

return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)

\* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

\* The returned map preserves the entry iteration order of the original array.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
```

public inline fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {

val capacity = mapCapacity(size).coerceAtLeast(16)

return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)

\* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

\* The returned map preserves the entry iteration order of the original array.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
```

public inline fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V> {

val capacity = mapCapacity(size).coerceAtLeast(16)

return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)

\* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

\* The returned map preserves the entry iteration order of the original array.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
```

public inline fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V> {

val capacity = mapCapacity(size).coerceAtLeast(16)

return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)

\* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

\* The returned map preserves the entry iteration order of the original array.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
```

public inline fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {

val capacity = mapCapacity(size).coerceAtLeast(16)

return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)

\* Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself.

\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
```

public inline fun <T, K, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {

for (element in this) {

destination.put(keySelector(element), element)

}

return destination

\* Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given array and value is the element itself.

\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

@sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
```

public inline fun <K, M :

```

MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}
Populates and returns the [destination] mutable map with key-value pairs,
where key is provided by the [keySelector] function applied to each element of the given array
and value is the element itself.
If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
public inline fun <K, M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination:
M, keySelector: (Short) -> K): M {
    for (element in this) {
        destination.put(keySelector(element),
element)
    }
    return destination
}
Populates and returns the [destination] mutable map with key-
value pairs,
where key is provided by the [keySelector] function applied to each element of the given array
and value is the element itself.
If any two elements would have the same key returned by [keySelector] the
last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
public inline fun <K, M :
MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {
    for (element
in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}
Populates
and returns the [destination] mutable map with key-value pairs,
where key is provided by the [keySelector]
function applied
to each element of the given array
and value is the element itself.
If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
public inline fun <K, M :
MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {
    for
(element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}
Populates and returns the [destination] mutable map with key-value pairs,
where key is provided by the
[keySelector] function applied to each element of the given array
and value is the element itself.
If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
public inline fun <K,
M : MutableMap<in
K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {
    for (element in this)
{
        destination.put(keySelector(element), element)
    }
    return destination
}
Populates and
returns the [destination] mutable map with key-value pairs,
where key is provided by the [keySelector] function
applied to each element of the given array
and value is the element itself.
If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
public inline fun <K, M :
MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M {
    for
(element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}
Populates and returns the [destination] mutable map with key-value pairs,
where key is provided
by the [keySelector] function applied to each element of the given array
and value is the element itself.
If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
public inline fun <K,
M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K):
M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return
destination
}
Populates and returns the [destination] mutable map with key-value pairs,
where key is
provided by the [keySelector] function applied to each element of the given array
and value is the element
itself.
If any two elements would have the same key returned by [keySelector] the last one gets added to the
map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
public inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector:
(Char) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return
destination
}
Populates and returns the [destination] mutable map with key-value pairs,
where key is

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provided by the [keySelector] function and\n \* and value is provided by the [valueTransform] function applied to elements of the given array.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n    for (element in this) {\n        destination.put(keySelector(element), valueTransform(element))\n    }\n    return
```

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destination\n}\n\n**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n    for (element in this) {\n        destination.put(keySelector(element), valueTransform(element))\n    }\n    return destination\n}\n\n**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements
```

```
of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\npublic inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {\n    for (element in this) {\n        destination.put(keySelector(element), valueTransform(element))\n    }\n    return destination\n}\n\n**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n    for (element in this) {\n        destination.put(keySelector(element), valueTransform(element))\n    }\n    return destination\n}\n\n**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\npublic inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {\n    for (element in this) {\n        destination.put(keySelector(element), valueTransform(element))\n    }\n    return destination\n}\n\n**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {\n    for (element in this) {\n        destination.put(keySelector(element), valueTransform(element))\n    }\n    return destination\n}\n\n**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\npublic inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {\n    for (element in this) {\n        destination.put(keySelector(element), valueTransform(element))\n    }\n    return destination\n}\n\n**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\npublic
```



```

inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector:
(Double) -> K, valueTransform: (Double) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given array. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform

public inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M,
keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given array. If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform

public inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector:
(Char) -> K, valueTransform: (Char) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

public inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

public inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform:
(Byte) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

public inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

public inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) ->
Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

public inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map.

@sample

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samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {\n for
(element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline
fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) ->
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {\n
for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of
two pairs would have the same key the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n for
(element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin("1.4")\npublic inline fun <K,
V> Array<out K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result = LinkedHashMap<K,
V>(mapCapacity(size).coerceAtLeast(16))\n return
associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array
and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are
equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the
original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ByteArray.associateWith(valueSelector: (Byte) -> V): Map<Byte, V> {\n val result = LinkedHashMap<Byte,
V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry
iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ShortArray.associateWith(valueSelector: (Short) -> V): Map<Short, V> {\n val result = LinkedHashMap<Short,
V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
IntArray.associateWith(valueSelector: (Int) -> V): Map<Int, V> {\n val result = LinkedHashMap<Int,

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V>(mapCapacity(size).coerceAtLeast(16))\n

return associateWithTo(result, valueSelector)\n}\n\n/\*\*\n \* Returns a [Map] where keys are elements from the given array and values are\n \* produced by the [valueSelector] function applied to each element.\n \* \n \* If any two elements are equal, the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.associateWith\n \*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>

LongArray.associateWith(valueSelector: (Long) -> V): Map<Long, V> {\n val result = LinkedHashMap<Long, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/\*\*\n \* Returns a [Map] where keys are elements from the given array and values are\n \* produced by the [valueSelector] function applied to each element.\n \* \n \* If any two elements are equal, the last one gets added to the map.\n \* \n \* The returned

map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.associateWith\n

\*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>

FloatArray.associateWith(valueSelector: (Float) -> V): Map<Float, V> {\n val result = LinkedHashMap<Float, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/\*\*\n \* Returns a [Map] where keys are elements from the given array and values are\n \* produced by the [valueSelector] function applied to each element.\n \* \n \* If any two elements are equal, the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Collections.Transformations.associateWith\n

\*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>

DoubleArray.associateWith(valueSelector: (Double) -> V): Map<Double, V> {\n val result = LinkedHashMap<Double, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/\*\*\n \* Returns a [Map] where keys are elements from the given array and values are\n \* produced by the [valueSelector] function applied to each element.\n \* \n \* If any two elements are equal, the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Collections.Transformations.associateWith\n

\*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>

BooleanArray.associateWith(valueSelector: (Boolean) -> V): Map<Boolean, V> {\n val result = LinkedHashMap<Boolean, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/\*\*\n \* Returns a [Map] where keys are elements from the given array and values are\n \* produced by the [valueSelector] function applied to each element.\n \* \n \* If any two elements are equal, the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Collections.Transformations.associateWith\n

\*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>

CharArray.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n val result = LinkedHashMap<Char, V>(mapCapacity(size).coerceAtMost(128)).coerceAtLeast(16)\n return associateWithTo(result, valueSelector)\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n \* where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n \* \n \* If any two elements are equal, the last one overwrites the former value in the map.\n \* \n \* @sample

samples.collections.Collections.Transformations.associateWithTo\n \*/\n@SinceKotlin("1.4")\npublic inline fun <K, V, M : MutableMap<in K, in V>> Array<out

K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n \* where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n \* \n \* If any two elements are equal, the last one overwrites the former value in the map.\n \* \n \* @sample

samples.collections.Collections.Transformations.associateWithTo\n

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*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Byte, in V>>\nByteArray.associateWithTo(destination: M, valueSelector: (Byte) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
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of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
```

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@sample samples.collections.Collections.Transformations.associateWithTo\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Short, in V>>\nShortArray.associateWithTo(destination: M, valueSelector: (Short) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample
```

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samples.collections.Collections.Transformations.associateWithTo\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Int, in V>>\nIntArray.associateWithTo(destination: M, valueSelector: (Int) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample
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samples.collections.Collections.Transformations.associateWithTo\n
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*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Long, in V>>\nLongArray.associateWithTo(destination: M, valueSelector: (Long) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample
```

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samples.collections.Collections.Transformations.associateWithTo\n
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*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Float, in V>>\nFloatArray.associateWithTo(destination: M, valueSelector: (Float) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample
```

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samples.collections.Collections.Transformations.associateWithTo\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Double, in V>>\nDoubleArray.associateWithTo(destination: M, valueSelector: (Double) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample
```

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samples.collections.Collections.Transformations.associateWithTo\n
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*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Boolean, in V>>\nBooleanArray.associateWithTo(destination: M, valueSelector: (Boolean) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one
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overwrites the former value in the map.\n * \n * @sample
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overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Char, in V>>
CharArray.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n for (element in this) {\n
destination.put(element, valueSelector(element))\n } \n return destination\n}\n\n/**\n * Appends all elements to
the given [destination] collection.\n *\npublic fun <T,
C : MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {\n for (item in this) {\n
destination.add(item)\n } \n return destination\n}\n\n/**\n * Appends all elements to the given [destination]
collection.\n *\npublic fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {\n for
(item in this) {\n destination.add(item)\n } \n return destination\n}\n\n/**\n * Appends all elements to the
given [destination] collection.\n *\npublic fun <C : MutableCollection<in Short>>
ShortArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n } \n return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n *\npublic fun <C :
MutableCollection<in Int>> IntArray.toCollection(destination: C): C {\n for (item in this) {\n
destination.add(item)\n } \n return destination\n}\n\n/**\n * Appends all elements to the given [destination]
collection.\n\n\npublic fun <C : MutableCollection<in Long>> LongArray.toCollection(destination: C): C {\n for (item in
this) {\n destination.add(item)\n } \n return destination\n}\n\n/**\n * Appends all elements to the given
[destination] collection.\n *\npublic fun <C : MutableCollection<in Float>> FloatArray.toCollection(destination:
C): C {\n for (item in this) {\n destination.add(item)\n } \n return destination\n}\n\n/**\n * Appends all
elements to the given [destination] collection.\n *\npublic fun <C : MutableCollection<in Double>>
DoubleArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n } \n return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n *\npublic fun <C :
MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C {\n for (item in this) {\n
destination.add(item)\n } \n return destination\n}\n\n/**\n * Appends all elements
to the given [destination] collection.\n *\npublic fun <C : MutableCollection<in Char>>
CharArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n } \n return
destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n *\npublic fun <T> Array<out T>.toHashSet():
HashSet<T> {\n return toCollection(HashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of
all elements.\n *\npublic fun ByteArray.toHashSet(): HashSet<Byte> {\n return
toCollection(HashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n\n\npublic fun ShortArray.toHashSet(): HashSet<Short> {\n return
toCollection(HashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n\n\npublic fun IntArray.toHashSet(): HashSet<Int> {\n return
toCollection(HashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n *\npublic
fun LongArray.toHashSet():
HashSet<Long> {\n return toCollection(HashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a new
[HashSet] of all elements.\n *\npublic fun FloatArray.toHashSet(): HashSet<Float> {\n return
toCollection(HashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n\n\npublic fun DoubleArray.toHashSet(): HashSet<Double> {\n return
toCollection(HashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n\n\npublic fun BooleanArray.toHashSet(): HashSet<Boolean> {\n return
toCollection(HashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n\n\npublic fun CharArray.toHashSet(): HashSet<Char> {\n return
toCollection(HashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n}\n\n/**\n * Returns a [List] containing all
elements.\n *\npublic fun <T> Array<out T>.toList(): List<T> {\n return when (size) {\n 0 -> emptyList()\n
1 -> listOf(this[0])\n else ->

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this.toMutableList()\n } \n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun
ByteArray.toList(): List<Byte> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun
ShortArray.toList(): List<Short> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun
IntArray.toList(): List<Int> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else ->
this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun
LongArray.toList(): List<Long> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n    }\n}\n\n/**\n * Returns a [List] containing
all elements.\n */\npublic fun FloatArray.toList(): List<Float> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else ->
this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all
elements.\n */\npublic fun DoubleArray.toList(): List<Double> {\n    return when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else ->
this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all
elements.\n */\npublic fun BooleanArray.toList(): List<Boolean> {\n    return when (size) {\n        0 ->
emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List]
containing all elements.\n */\npublic fun CharArray.toList(): List<Char> {\n    return when (size) {\n        0 ->
emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a new
[MutableList] filled with all elements of this array.\n */\npublic
fun <T> Array<out T>.toMutableList(): MutableList<T> {\n    return ArrayList(this.asCollection())\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun
ByteArray.toMutableList(): MutableList<Byte> {\n    val list = ArrayList<Byte>(size)\n    for (item in this) list.add(item)\n    return
list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun
ShortArray.toMutableList(): MutableList<Short> {\n    val list = ArrayList<Short>(size)\n    for (item in this)
list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun
IntArray.toMutableList(): MutableList<Int> {\n    val list = ArrayList<Int>(size)\n    for (item in this)
list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun
LongArray.toMutableList(): MutableList<Long> {\n    val list = ArrayList<Long>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of
this array.\n */\npublic fun FloatArray.toMutableList(): MutableList<Float> {\n    val list =
ArrayList<Float>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList]
filled with all elements of this array.\n */\npublic fun DoubleArray.toMutableList(): MutableList<Double> {\n    val
list = ArrayList<Double>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new
[MutableList] filled with all elements of this array.\n */\npublic fun BooleanArray.toMutableList():
MutableList<Boolean> {\n    val list = ArrayList<Boolean>(size)\n    for (item in this) list.add(item)\n    return
list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun
CharArray.toMutableList(): MutableList<Char> {\n    val list = ArrayList<Char>(size)\n    for (item in this)
list.add(item)\n    return list\n}\n\n/**\n * Returns a [Set] of all elements.\n */\n * The returned set preserves the
element iteration order of the original array.\n */\npublic fun <T> Array<out T>.toSet(): Set<T> {\n    return when
(size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<T>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n */\n * The returned set preserves the element iteration order of the original array.\n */\npublic fun
ByteArray.toSet(): Set<Byte> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n */\n * The returned set preserves the element iteration order of the original array.\n */\npublic fun
ShortArray.toSet(): Set<Short> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n */\n * The returned set preserves the element iteration order of
the original array.\n */\npublic fun IntArray.toSet(): Set<Int> {\n    return when (size) {\n        0 -> emptySet()\n

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1 -> setOf(this[0])\n    else -> toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns
a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n
*\npublic fun LongArray.toSet(): Set<Long> {\n    return when (size) {\n        0 -> emptySet()\n        1 ->
setOf(this[0])\n        else -> toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a
[Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n *\npublic
fun FloatArray.toSet(): Set<Float> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n
        else -> toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all
elements.\n * \n * The returned set preserves the element iteration order of the original array.\n *\npublic fun
DoubleArray.toSet(): Set<Double> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n
        else -> toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all
elements.\n * \n * The returned set preserves the element iteration order of the original array.\n *\npublic fun
BooleanArray.toSet(): Set<Boolean> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n
        else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all
elements.\n * \n * The returned set preserves the element iteration order of the original array.\n *\npublic fun
CharArray.toSet(): Set<Char> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n
        else ->
toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n    }\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <T, R> Array<out
T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n *
Returns a single list of all elements yielded from results of [transform] function being invoked on each element of
original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun
<R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R>
ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R> IntArray.flatMap(transform:
(Int) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R>
LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform]
function being invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R> FloatArray.flatMap(transform:
(Float) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R>
DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R> BooleanArray.flatMap(transform:
(Boolean) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R> CharArray.flatMap(transform:

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(Char) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *\n * @sample samples.collections.Collections.Transformations.flatMap\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <T, R> Array<out T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n  return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n *\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n  return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n *\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.flatMapIndexed(transform: (index: Int, Byte) -> Iterable<R>): List<R> {\n  return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n *\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.flatMapIndexed(transform: (index: Int, Short) -> Iterable<R>): List<R> {\n  return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n *\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.flatMapIndexed(transform: (index: Int, Int) -> Iterable<R>): List<R> {\n  return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n *\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.flatMapIndexed(transform: (index: Int, Long) -> Iterable<R>): List<R> {\n  return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n *\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.flatMapIndexed(transform: (index: Int, Float) -> Iterable<R>): List<R> {\n  return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n *\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic

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inline fun <R> DoubleArray.flatMapIndexed(transform: (index: Int, Double) -> Iterable<R>): List<R> {\n  return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> BooleanArray.flatMapIndexed(transform: (index: Int, Boolean) -> Iterable<R>): List<R> {\n
return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded
from results of [transform] function being invoked on each element\n * and its index in the original
array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharArray.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n  return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequence")\n@kotlin.internal.InlineOnly\npubli
c inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>):
List<R> {\n  return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded
from results of [transform] function being invoked on each element\n * and its index in the original array, to the
given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++,
element)\n    destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c
inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Byte) -> Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++,
element)\n    destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Short) -> Iterable<R>):
C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++, element)\n
destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> IntArray.flatMapIndexedTo(destination: C, transform: (index: Int,

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Int) -> Iterable<R>): C { \n  var index = 0 \n  for (element in this) { \n    val list = transform(index++, element) \n
    destination.addAll(list) \n  } \n  return destination \n } \n \n /** \n * Appends all elements yielded from results of
[transform] function being invoked on each element \n * and its index in the original
array, to the given [destination]. \n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> LongArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Long) -> Iterable<R>): C { \n  var index = 0 \n  for (element in this) { \n    val list = transform(index++,
element) \n    destination.addAll(list) \n  } \n  return destination \n } \n \n /** \n * Appends all elements yielded from
results of [transform] function being invoked on each element \n * and its index in the original
array, to the given
[destination]. \n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapIndexedTo(destination:
C, transform: (index: Int, Float) -> Iterable<R>): C { \n  var index = 0 \n  for (element in this) { \n    val list =
transform(index++, element) \n    destination.addAll(list) \n  } \n  return destination \n } \n \n /** \n * Appends all
elements yielded from results of [transform] function being invoked on each element \n * and its index in the original
array, to the given
[destination]. \n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapIndexedTo(destination: C, transform: (index:
Int, Double) -> Iterable<R>): C { \n  var index = 0 \n  for (element in this) { \n    val list = transform(index++,
element) \n    destination.addAll(list) \n  } \n  return destination \n } \n \n /** \n * Appends all elements yielded from
results
of [transform] function being invoked on each element \n * and its index in the original
array, to the given
[destination]. \n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapIndexedTo(destination: C, transform: (index:
Int, Boolean) -> Iterable<R>): C { \n  var index = 0 \n  for (element in this) { \n    val list = transform(index++,
element) \n    destination.addAll(list) \n  } \n  return destination \n } \n \n /** \n * Appends all elements yielded from
results of [transform] function being invoked on each element \n * and its index in the original
array, to the given
[destination]. \n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c
inline fun <R, C : MutableCollection<in R>> CharArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Char) -> Iterable<R>): C { \n  var index = 0 \n  for (element in this) { \n    val list = transform(index++,
element) \n    destination.addAll(list) \n  } \n  return destination \n } \n \n /** \n * Appends all elements yielded from
results of [transform] function being invoked on each element \n * and its index in the original
array, to the given
[destination]. \n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npubl
ic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C { \n  var index = 0 \n  for (element in this) { \n    val list =
transform(index++, element) \n    destination.addAll(list) \n
} \n  return destination \n } \n \n /** \n * Appends all elements yielded from results of [transform] function being
invoked on each element of original array, to the given [destination]. \n *\npublic inline fun <T, R, C :

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MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all elements yielded from results of [transform] function being invoked on each
 * element of original array, to the given [destination].
 */
public inline fun <R, C : MutableCollection<in R>>
ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all elements
 * yielded from results of [transform] function being invoked on each element
 * of original array, to the given [destination].
 */
public inline fun <R, C : MutableCollection<in R>>
ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all
 * elements yielded from results of [transform] function being invoked on each element of original array, to the given
 * [destination].
 */
public inline fun <R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C,
transform: (Int) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all elements yielded from results of
 * [transform] function being invoked on each element of original array, to the given [destination].
 */
public inline fun <R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C, transform: (Long)
-> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all elements yielded from results of [transform] function being
 * invoked on each element of original array, to the given [destination].
 */
public inline fun <R, C :
MutableCollection<in R>> FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all elements yielded from results of [transform] function being invoked on each
 * element of original array, to the given [destination].
 */
public inline fun <R, C : MutableCollection<in R>>
DoubleArray.flatMapTo(destination: C, transform: (Double) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original
 * array, to the given [destination].
 */
public inline fun <R, C : MutableCollection<in R>>
BooleanArray.flatMapTo(destination: C, transform: (Boolean) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all
 * elements yielded from results of [transform] function being invoked on each element of original array, to the given
 * [destination].
 */
public inline fun <R, C : MutableCollection<in R>> CharArray.flatMapTo(destination: C,
transform: (Char) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all elements yielded from results of
 * [transform] function being invoked on each element of original array, to the given [destination].
 */
}
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("flatMapSequenceTo")
public inline fun <T, R, C :
MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Groups elements of the original array by the key returned by the given [keySelector]
 * function
 * * applied to each element and returns a map where each group key is associated with a list of
 * corresponding elements.
 * * The returned map preserves the entry iteration order of the keys produced from the
 * original array.
 */
@sample samples.collections.Collections.Transformations.groupBy
public inline fun
<T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return groupByTo(LinkedHashMap<K, MutableList<T>>(),
keySelector)
}
/**
 * Groups elements of the original array by the key returned by the given [keySelector]
 * function
 * * applied to each element and returns a map where each group key is associated with a list of
 * corresponding elements.
 * * The returned map preserves the entry iteration order of the keys produced from the
 * original array.
 */
@sample samples.collections.Collections.Transformations.groupBy
public inline fun

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<K> ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<Byte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original
array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where
each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry
iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\npublic inline fun <K> ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\npublic inline fun <K>
IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {\n  return groupByTo(LinkedHashMap<K,
MutableList<Int>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the
given [keySelector] function\n * applied to each element and returns a map where each group key is associated with
a list of corresponding elements.\n * \n * The returned
map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\npublic inline fun <K>
LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\npublic inline fun <K>
FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {\n  return groupByTo(LinkedHashMap<K,
MutableList<Float>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the
given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\npublic inline fun
<K> DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\npublic inline fun <K>
BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>>
{\n  return groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector)\n}\n\n/**\n * Groups
elements of the original array by the key returned by the given [keySelector] function\n * applied to each element
and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned
map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\npublic inline fun <K>
CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n  return groupByTo(LinkedHashMap<K,
MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied
to each element of the original array\n * by the key returned by the given [keySelector] function applied to the
element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The
returned map preserves the entry

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iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n * \n\npublic inline fun <T, K, V>
Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n * \n\npublic inline fun <K, V>
ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K,
MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform]
function applied to each element of the original array\n * by the key returned by the given [keySelector] function
applied to the element\n * and returns a map where each group key is associated with a list of corresponding
values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n
* \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n * \n\npublic inline fun
<K, V> ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {\n
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups
values returned by the [valueTransform] function applied to each element of the original array\n * by the key
returned by the given [keySelector] function applied to the element\n * and returns a map where each group key
is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the
keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n * \n\npublic inline fun <K, V>
IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n * \n\npublic inline fun <K, V>
LongArray.groupBy(keySelector:
(Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K,
MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform]
function applied to each element of the original array\n * by the key returned by the given [keySelector] function
applied to the element\n * and returns a map where each group key is associated with a list of corresponding
values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n
* \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n * \n\npublic inline fun
<K, V> FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {\n
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups
values returned by the [valueTransform] function applied to each element of the original array\n * by the key
returned by the given
[keySelector] function applied to the element\n * and returns a map where each group key is associated with a list
of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n
* \n\npublic inline fun <K, V> DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> V):
Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of
the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns

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a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves
the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n
*/\npublic inline fun <K, V> BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) ->
V): Map<K, List<V>> {\n    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of
the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns
a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves
the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n    return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements
of the original
array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline
fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -
> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key)
{ ArrayList<T>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline
fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) ->
K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) {
ArrayList<Byte>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline
fun <K, M : MutableMap<in K, MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short)
-> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<Short>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@\n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Int>>> IntArray.groupByTo(destination: M,
keySelector: (Int) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<Int>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@\n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Long>>> LongArray.groupByTo(destination: M,
keySelector: (Long) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<Long>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@\n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Float>>> FloatArray.groupByTo(destination: M,

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keySelector: (Float) -> K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<Float>() }\n    list.add(element)\n
  }\n  return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given
[keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with
a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K,
MutableList<Double>>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K): M {\n  for
(element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) {
ArrayList<Double>() }\n    list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n *
@sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M :
MutableMap<in K, MutableList<Boolean>>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) ->
K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) {
ArrayList<Boolean>() }\n    list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>>>
CharArray.groupByTo(destination: M, keySelector: (Char) -> K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key)
{ ArrayList<Char>() }\n    list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups values returned by
the [valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with
a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K,
valueTransform: (Byte) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return
The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K,
valueTransform: (Short) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]

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map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination:
M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n for (element in this) {\n val key =
keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K,
valueTransform: (Long) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K,
valueTransform: (Float) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination]
map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n *
@sample samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K,
valueTransform: (Double) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return
The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K,
valueTransform: (Boolean) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination:
M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n val key =
keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Creates a [Grouping] source from an
array to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract
a key from each element.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n
*\n * @Since Kotlin("1.1")\n *^\npublic inline fun <T, K> Array<out T>.groupingBy(crossinline keySelector: (T) -> K):
Grouping<T, K> {\n return object : Grouping<T, K> {\n override fun sourceIterator(): Iterator<T> =

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this@groupBy.iterator()\n      override fun keyOf(element: T): K = keySelector(element)\n  }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n * public inline fun <T, R> Array<out T>.map(transform: (T) -> R): List<R> {\n  return mapTo(ArrayList<R>(size), transform)\n}\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n * public inline fun <R> ByteArray.map(transform: (Byte) -> R): List<R> {\n  return mapTo(ArrayList<R>(size), transform)\n}\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n * public inline fun <R> ShortArray.map(transform: (Short) -> R): List<R> {\n  return mapTo(ArrayList<R>(size), transform)\n}\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n * public inline fun <R> IntArray.map(transform: (Int) -> R): List<R> {\n  return mapTo(ArrayList<R>(size), transform)\n}\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n * public inline fun <R> LongArray.map(transform: (Long) -> R): List<R> {\n  return mapTo(ArrayList<R>(size), transform)\n}\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n * public inline fun <R> FloatArray.map(transform: (Float) -> R): List<R> {\n  return mapTo(ArrayList<R>(size), transform)\n}\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n * public inline fun <R> DoubleArray.map(transform: (Double) -> R): List<R> {\n  return mapTo(ArrayList<R>(size), transform)\n}\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n * public inline fun <R> BooleanArray.map(transform: (Boolean) -> R): List<R> {\n  return mapTo(ArrayList<R>(size), transform)\n}\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \n * public inline fun <R> CharArray.map(transform: (Char) -> R): List<R> {\n  return mapTo(ArrayList<R>(size), transform)\n}\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \n * public inline fun <T, R> Array<out T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n  return mapIndexedTo(ArrayList<R>(size), transform)\n}\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \n * public inline fun <R> ByteArray.mapIndexed(transform: (index: Int, Byte) -> R): List<R> {\n  return mapIndexedTo(ArrayList<R>(size), transform)\n}\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \n * public inline fun <R> ShortArray.mapIndexed(transform: (index: Int, Short) -> R): List<R> {\n  return mapIndexedTo(ArrayList<R>(size), transform)\n}\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * \n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \n * public inline fun <R> IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {\n  return mapIndexedTo(ArrayList<R>(size), transform)\n}\n}\n\n/**\n * Returns a list containing the results of applying

```

the given [transform] function to each element and its index in the original array. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R> LongArray.mapIndexed(transform:
(index: Int, Long) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R>
FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {
    return
mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun
<R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {
    return
mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R> CharArray.mapIndexed(transform: (index: Int, Char) -
> R): List<R>
{
    return mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing only the non-null results of applying the given [transform] function to each element and its index in the original array. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <T, R : Any> Array<out
T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {
    return
mapIndexedNotNullTo(ArrayList<R>(0), transform)
}

```

Applies the given [transform] function to each element and its index in the original array and appends only the non-null results to the given [destination]. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <T, R : Any, C : MutableCollection<in R>> Array<out
T>.mapIndexedNotNullTo(destination:
C, transform: (index: Int, T) -> R?): C {
    forEachIndexed { index, element -> transform(index, element)?.let {
destination.add(it) } }
    return destination
}

```

Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination]. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <T, R, C : MutableCollection<in R>> Array<out
T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {
    var index = 0
    for (item in this)
destination.add(transform(index++, item))
    return destination
}

```

Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination]. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>>
ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C {
    var index = 0
    for (item in this)
destination.add(transform(index++, item))
    return destination
}

```

Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination]. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R, C : MutableCollection<in R>>
ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {
    var index = 0
    for (item in

```

```

this)\n    destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n
 * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline
fun <R, C : MutableCollection<in R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {
\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n
 * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline
fun <R, C : MutableCollection<in R>> LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) ->
R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++,
item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in
the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes
the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
*/\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.mapIndexedTo(destination: C, transform:
(index: Int, Float) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++,
item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in
the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes
the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
*/\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.mapIndexedTo(destination:
C, transform: (index: Int, Double) -> R): C {\n    var index = 0\n    for (item in this)\n
destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given [transform]
function to each element and its index in the original array\n * and appends the results to the given [destination].\n
*/\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
BooleanArray.mapIndexedTo(destination: C, transform: (index: Int, Boolean) -> R): C {\n    var index = 0\n    for
(item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element
and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R,
C : MutableCollection<in R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n
var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return
destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform]
function\n * to each element in the original array.\n */\n * @sample
samples.collections.Collections.Transformations.mapNotNull\n */\npublic inline fun <T, R : Any> Array<out
T>.mapNotNull(transform: (T) -> R?): List<R> {\n    return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n
 * Applies the given [transform] function to each element in the original array\n * and appends only the non-null
results to the given [destination].\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out
T>.mapNotNullTo(destination: C, transform:
(T) -> R?): C {\n    forEach { element -> transform(element)?.let { destination.add(it) } }\n    return
destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and
appends the results to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>>
Array<out T>.mapTo(destination: C, transform: (T) -> R): C {\n    for (item in this)\n
destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {\n    for (item in this)\n
destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun

```



elements from the given array.\n \* \n \* Among equal elements of the given array, only the first one will be present in the resulting list.\n \* The elements in the resulting list are in the same order as they were in the source array.\n \*  
@sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n \*  
public fun <T> Array<out T>.distinct(): List<T> {\n return this.toMutableSet().toList()\n}\n\n/\*\*\n \* Returns a list containing only distinct elements from the given array.\n \* \n \* The elements in the resulting list are in the same order as they were in the source array.\n \* \n \* @sample  
samples.collections.Collections.Transformations.distinctAndDistinctBy\n \*  
public fun ByteArray.distinct(): List<Byte> {\n return this.toMutableSet().toList()\n}\n\n/\*\*\n \* Returns a list containing only distinct elements from the given array.\n \* \n \* The elements in the resulting list are in the same order as they were in the source array.\n \* \n \* @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n \*  
public fun ShortArray.distinct(): List<Short> {\n return this.toMutableSet().toList()\n}\n\n/\*\*\n \* Returns a list containing only distinct elements from the given array.\n \* \n \* The elements in the resulting list are in the same order as they were in the source array.\n \* \n \* @sample  
samples.collections.Collections.Transformations.distinctAndDistinctBy\n \*  
public fun IntArray.distinct(): List<Int> {\n return this.toMutableSet().toList()\n}\n\n/\*\*\n \* Returns a list containing only distinct elements from the given array.\n \* \n \* The elements in the resulting list are in the same order as they were in the source array.\n \* \n \* @sample  
samples.collections.Collections.Transformations.distinctAndDistinctBy\n \*  
public fun LongArray.distinct(): List<Long> {\n return this.toMutableSet().toList()\n}\n\n/\*\*\n \* Returns a list containing only distinct elements from the given array.\n \* \n \* The elements in the resulting list are in the same order as they were in the source array.\n \* \n \* @sample  
samples.collections.Collections.Transformations.distinctAndDistinctBy\n \*  
public fun FloatArray.distinct(): List<Float> {\n return this.toMutableSet().toList()\n}\n\n/\*\*\n \* Returns a list containing only distinct elements from the given array.\n \* \n \* The elements in the resulting list are in the same order as they were in the source array.\n \* \n \* @sample  
samples.collections.Collections.Transformations.distinctAndDistinctBy\n \*  
public fun DoubleArray.distinct(): List<Double> {\n return this.toMutableSet().toList()\n}\n\n/\*\*\n \* Returns a list containing only distinct elements from the given array.\n \* \n \* The elements in the resulting list are in the same order as they were in the source array.\n \* \n \* @sample  
samples.collections.Collections.Transformations.distinctAndDistinctBy\n \*  
public fun BooleanArray.distinct(): List<Boolean> {\n return this.toMutableSet().toList()\n}\n\n/\*\*\n \* Returns a list containing only distinct elements from the given array.\n \* \n \* The elements in the resulting list are in the same order as they were in the source array.\n \* \n \* @sample  
samples.collections.Collections.Transformations.distinctAndDistinctBy\n \*  
public fun CharArray.distinct(): List<Char> {\n return this.toMutableSet().toList()\n}\n\n/\*\*\n \* Returns a list containing only elements from the given array\n \* having distinct keys returned by the given [selector] function.\n \* \n \* Among elements of the given array with equal keys, only the first one will be present in the resulting list.\n \* \n \* The elements in the resulting list are in the same order as they were in the source array.\n \* \n \* @sample  
samples.collections.Collections.Transformations.distinctAndDistinctBy\n \*  
public inline fun <T, K> Array<out T>.distinctBy(selector: (T) -> K): List<T> {\n val set = HashSet<K>()\n val list = ArrayList<T>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/\*\*\n \* Returns a list containing only elements from the given array\n \* having distinct keys returned by the given [selector] function.\n \* \n \* The elements in the resulting list are in the same order as they were in the source array.\n \* \n \* @sample  
samples.collections.Collections.Transformations.distinctAndDistinctBy\n \*  
public inline fun <K> ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {\n val set = HashSet<K>()\n val list = ArrayList<Byte>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/\*\*\n \* Returns a list containing only elements from the given array\n \* having distinct keys returned by the given [selector] function.\n \* \n \* The elements in the resulting list are in the same order as they were in the source array.\n \* \n \* @sample

```

samples.collections.Collections.Transformations.distinctAndDistinctBy\n
*^public inline fun <K> ShortArray.distinctBy(selector: (Short) -> K): List<Short> {\n    val set =
HashSet<K>()\n    val list = ArrayList<Short>()\n    for (e in this) {\n        val key = selector(e)\n        if
(set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the
given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting
list are in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n
*^public inline fun <K>
IntArray.distinctBy(selector: (Int) -> K): List<Int> {\n    val set = HashSet<K>()\n    val list = ArrayList<Int>()\n
for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n
* Returns a list containing only elements from the given array\n * having distinct keys returned
by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the
source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n
*^public inline fun <K>
LongArray.distinctBy(selector: (Long) -> K): List<Long> {\n    val set = HashSet<K>()\n    val list
= ArrayList<Long>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n
}\n    return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n
*^public inline fun <K>
FloatArray.distinctBy(selector: (Float) -> K): List<Float> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Float>()\n    for (e in this)
{\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n
* Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector]
function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n *
@sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n
*^public inline fun <K>
DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Double>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n
}\n    return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n
*^public inline fun <K>
BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {\n    val set =
HashSet<K>()\n    val list = ArrayList<Boolean>()\n    for (e in this) {\n        val key = selector(e)\n        if
(set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the
given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting
list are in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n
*^public inline fun <K>
CharArray.distinctBy(selector: (Char) -> K): List<Char> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Char>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n
}\n    return list\n}\n\n/**\n * Returns a set containing all elements
that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element
iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of
these collections use [union].\n
*^public infix fun <T> Array<out T>.intersect(other: Iterable<T>): Set<T> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n
* Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the
element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in
one of these collections use [union].\n
*^public infix fun ByteArray.intersect(other: Iterable<Byte>): Set<Byte>
{\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all
elements that are contained by both this array

```



the original array.

```

public infix fun FloatArray.subtract(other: Iterable<Float>): Set<Float> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

```

\* Returns a set containing all elements that are contained by this array and not contained by the specified collection.

```

public infix fun DoubleArray.subtract(other: Iterable<Double>): Set<Double> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

```

\* Returns a set containing all elements that are contained by this array and not contained by the specified collection.

```

public infix fun BooleanArray.subtract(other: Iterable<Boolean>): Set<Boolean> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

```

\* Returns a set containing all elements that are contained by this array and not contained by the specified collection.

```

public infix fun CharArray.subtract(other: Iterable<Char>): Set<Char> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

```

\* Returns a new [MutableSet] containing all distinct elements from the given array.

```

public fun <T> Array<out T>.toMutableSet(): MutableSet<T> {
    return toCollection(LinkedHashSet<T>(mapCapacity(size)))
}

```

\* Returns a new [MutableSet] containing all distinct elements from the given array.

```

public fun ByteArray.toMutableSet(): MutableSet<Byte> {
    return toCollection(LinkedHashSet<Byte>(mapCapacity(size)))
}

```

\* Returns a new [MutableSet] containing all distinct elements from the given array.

```

public fun ShortArray.toMutableSet(): MutableSet<Short> {
    return toCollection(LinkedHashSet<Short>(mapCapacity(size)))
}

```

\* Returns a new [MutableSet] containing all distinct elements from the given array.

```

public fun IntArray.toMutableSet(): MutableSet<Int> {
    return toCollection(LinkedHashSet<Int>(mapCapacity(size)))
}

```

\* Returns a new [MutableSet] containing all distinct elements from the given array.

```

public fun LongArray.toMutableSet(): MutableSet<Long> {
    return toCollection(LinkedHashSet<Long>(mapCapacity(size)))
}

```

\* Returns a new [MutableSet] containing all distinct elements from the given array.

```

public fun FloatArray.toMutableSet(): MutableSet<Float> {
    return toCollection(LinkedHashSet<Float>(mapCapacity(size)))
}

```

\* Returns a new [MutableSet] containing all distinct elements from the given array.

```

public fun DoubleArray.toMutableSet(): MutableSet<Double> {
    return toCollection(LinkedHashSet<Double>(mapCapacity(size)))
}

```

\* Returns a new [MutableSet] containing all distinct elements from the given array.

```

public fun BooleanArray.toMutableSet(): MutableSet<Boolean> {
    return toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))
}

```

\* Returns a new [MutableSet] containing all distinct elements from the given array.

```

public fun CharArray.toMutableSet(): MutableSet<Char> {
    return toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))
}

```

\* Returns a set containing all distinct elements from both collections.

```

public infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

```

\* Returns a set containing all distinct elements from both collections.

\* Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection.

\* To get a set containing all elements that are contained in both collections use [intersect].



get a set containing all elements that are contained in both collections use [intersect].\n \*\npublic infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections.\n \* \n \* The returned set preserves the element iteration order of the original array.\n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection.\n \* \n \* To get a set containing all elements that are contained in both collections use [intersect].\n \*\npublic infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections.\n \* \n \* The returned set preserves the element iteration order of the original array.\n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection.\n \* \n \* To get a set containing all elements that are contained in both collections use [intersect].\n \*\npublic infix fun IntArray.union(other: Iterable<Int>): Set<Int> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections.\n \* \n \* The returned set preserves the element iteration order of the original array.\n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection.\n \* \n \* To get a set containing all elements that are contained in both collections use [intersect].\n \*\npublic infix fun LongArray.union(other: Iterable<Long>): Set<Long> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections.\n \* \n \* The returned set preserves the element iteration order of the original array.\n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection.\n \* \n \* To get a set containing all elements that are contained in both collections use [intersect].\n \*\npublic infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections.\n \* \n \* The returned set preserves the element iteration order of the original array.\n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection.\n \* \n \* To get a set containing all elements that are contained in both collections use [intersect].\n \*\npublic infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections.\n \* \n \* The returned set preserves the element iteration order of the original array.\n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection.\n \* \n \* To get a set containing all elements that are contained in both collections use [intersect].\n \*\npublic infix fun BooleanArray.union(other: Iterable<Boolean>): Set<Boolean> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\n\n/\*\*\n \* Returns a set containing all distinct elements from both collections.\n \* \n \* The returned set preserves the element iteration order of the original array.\n \* Those elements of the [other] collection that are unique are iterated in the end\n \* in the order of the [other] collection.\n \* \n \* To get a set containing all elements that are contained in both collections use [intersect].\n \*\npublic infix fun CharArray.union(other: Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\n\n/\*\*\n \* Returns `true` if all elements match the given [predicate].\n \* \n \* Note that if the array contains no elements, the function returns `true`\n \* because there are no elements in it that do not match the predicate.\n \* See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article.\n \* \n \* @sample samples.collections.Collections.Aggregates.all\n \*\npublic inline fun <T> Array<out T>.all(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true}\n\n/\*\*\n \* Returns `true` if all elements match the given [predicate].\n \* \n \* Note that if the array contains no elements, the function returns `true`\n \* because there are no elements in it that do not match the predicate.\n \* See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article.\n \* \n \* @sample samples.collections.Collections.Aggregates.all\n \*\npublic inline fun ByteArray.all(predicate: (Byte) -> Boolean):

Boolean { \n for (element in this) if (!predicate(element)) return false\n return true\n} \n \n \* Returns `true` if all elements match the given [predicate]. \n \* \n \* Note that if the array contains no elements, the function returns `true` \n \* because there are no elements in it that do not match the predicate. \n \* See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article. \n \* \n \* @sample samples.collections.Collections.Aggregates.all \n \* \n public inline fun ShortArray.all(predicate: (Short) -> Boolean): Boolean { \n for (element in this) if (!predicate(element)) return false\n return true\n} \n \n \* Returns `true` if all elements match the given [predicate]. \n \* \n \* Note that if the array contains no elements, the function returns `true` \n \* because there are no elements in it that do not match the predicate. \n \* See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article. \n \* \n \* @sample samples.collections.Collections.Aggregates.all \n \* \n public inline fun IntArray.all(predicate: (Int) -> Boolean): Boolean { \n for (element in this) if (!predicate(element)) return false\n return true\n} \n \n \* Returns `true` if all elements match the given [predicate]. \n \* \n \* Note that if the array contains no elements, the function returns `true` \n \* because there are no elements in it that do not match the predicate. \n \* See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article. \n \* \n \* @sample samples.collections.Collections.Aggregates.all \n \* \n public inline fun LongArray.all(predicate: (Long) -> Boolean): Boolean { \n for (element in this) if (!predicate(element)) return false\n return true\n} \n \n \* Returns `true` if all elements match the given [predicate]. \n \* \n \* Note that if the array contains no elements, the function returns `true` \n \* because there are no elements in it that do not match the predicate. \n \* See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article. \n \* \n \* @sample samples.collections.Collections.Aggregates.all \n \* \n public inline fun FloatArray.all(predicate: (Float) -> Boolean): Boolean { \n for (element in this) if (!predicate(element)) return false\n return true\n} \n \n \* Returns `true` if all elements match the given [predicate]. \n \* \n \* Note that if the array contains no elements, the function returns `true` \n \* because there are no elements in it that do not match the predicate. \n \* See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article. \n \* \n \* @sample samples.collections.Collections.Aggregates.all \n \* \n public inline fun DoubleArray.all(predicate: (Double) -> Boolean): Boolean { \n for (element in this) if (!predicate(element)) return false\n return true\n} \n \n \* Returns `true` if all elements match the given [predicate]. \n \* \n \* Note that if the array contains no elements, the function returns `true` \n \* because there are no elements in it that do not match the predicate. \n \* See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article. \n \* \n \* @sample samples.collections.Collections.Aggregates.all \n \* \n public inline fun BooleanArray.all(predicate: (Boolean) -> Boolean): Boolean { \n for (element in this) if (!predicate(element)) return false\n return true\n} \n \n \* Returns `true` if all elements match the given [predicate]. \n \* \n \* Note that if the array contains no elements, the function returns `true` \n \* because there are no elements in it that do not match the predicate. \n \* See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article. \n \* \n \* @sample samples.collections.Collections.Aggregates.all \n \* \n public inline fun CharArray.all(predicate: (Char) -> Boolean): Boolean { \n for (element in this) if (!predicate(element)) return false\n return true\n} \n \n \* Returns `true` if array has at least one element. \n \* \n \* @sample samples.collections.Collections.Aggregates.any \n \* \n public fun <T> Array<out T>.any(): Boolean { \n return !isEmpty()\n} \n \n \* Returns `true` if array has at least one element. \n \* \n \* @sample samples.collections.Collections.Aggregates.any \n \* \n public fun ByteArray.any(): Boolean { \n return !isEmpty()\n} \n \n \* Returns `true` if array has at least one element. \n \* \n \* @sample samples.collections.Collections.Aggregates.any \n \* \n public fun ShortArray.any(): Boolean { \n return !isEmpty()\n} \n \n \* Returns `true` if array has at least one element. \n \* \n \* @sample samples.collections.Collections.Aggregates.any \n \* \n public fun IntArray.any(): Boolean { \n return

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isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *^\npublic fun LongArray.any(): Boolean {\n  return
isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *^\npublic fun FloatArray.any(): Boolean {\n  return
isEmpty()\n}\n\n/**\n * Returns
`true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*^\npublic fun DoubleArray.any(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if array has at least
one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n *^\npublic fun
BooleanArray.any(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n
* \n * @sample samples.collections.Collections.Aggregates.any\n *^\npublic fun CharArray.any(): Boolean {\n
return isEmpty()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^\npublic inline fun <T> Array<out
T>.any(predicate: (T) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n  return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n
*^\npublic inline fun ByteArray.any(predicate: (Byte) -> Boolean): Boolean {\n  for (element in this) if
(predicate(element)) return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the
given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^\npublic
inline fun ShortArray.any(predicate: (Short) -> Boolean): Boolean {\n  for (element in this) if (predicate(element))
return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^\npublic inline fun
IntArray.any(predicate: (Int) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n
return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n
*^\npublic inline fun LongArray.any(predicate: (Long) -> Boolean): Boolean {\n  for (element in this) if
(predicate(element)) return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the
given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^\npublic
inline fun FloatArray.any(predicate: (Float) -> Boolean): Boolean {\n  for (element in this) if (predicate(element))
return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^\npublic inline fun
DoubleArray.any(predicate: (Double) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^\npublic
inline fun BooleanArray.any(predicate: (Boolean) -> Boolean): Boolean {\n  for (element in this) if
(predicate(element)) return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the
given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^\npublic
inline fun CharArray.any(predicate: (Char) -> Boolean): Boolean {\n  for (element in this) if (predicate(element))
return true\n  return false\n}\n\n/**\n * Returns the number of elements in this array.\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.count(): Int {\n  return size\n}\n\n/**\n *
Returns the number of elements in this array.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.count(): Int {\n  return size\n}\n\n/**\n * Returns the number of elements in this array.\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.count(): Int {\n  return size\n}\n\n/**\n * Returns the
number of elements in this
array.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.count(): Int {\n  return size\n}\n\n/**\n *
Returns the number of elements in this array.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.count(): Int {\n  return size\n}\n\n/**\n * Returns the number of elements in this array.\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.count(): Int {\n  return size\n}\n\n/**\n * Returns the
number of elements in this array.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.count(): Int {\n

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return size\n}\n\n/**\n * Returns the number of elements in this array.\n *^\n@kotlin.internal.InlineOnly\npublic
inline fun BooleanArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of elements in this array.\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the
number of elements matching the given [predicate].\n *^\npublic inline fun <T> Array<out T>.count(predicate:
(T) -> Boolean): Int {\n    var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n *^\npublic inline fun
ByteArray.count(predicate: (Byte) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
(predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n *^\npublic inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {\n    var count = 0\n
for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements
matching the given [predicate].\n *^\npublic inline fun IntArray.count(predicate: (Int) -> Boolean): Int {\n    var
count = 0\n    for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the
number of elements matching the given [predicate].\n *^\npublic inline fun LongArray.count(predicate:
(Long) -> Boolean): Int {\n    var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n *^\npublic inline fun
FloatArray.count(predicate: (Float) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
(predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n *^\npublic inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int {\n    var count = 0\n
for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements
matching the given [predicate].\n *^\npublic inline fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int
{\n    var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns
the number of elements matching the given [predicate].\n *^\npublic inline fun
CharArray.count(predicate: (Char) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
(predicate(element)) ++count\n    return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator
value and an element, and calculates the next accumulator value.\n *^\npublic inline fun <T, R> Array<out
T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n    var accumulator = initial\n    for (element in this)
accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n
* \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.\n *^\npublic inline fun
<R> ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {\n    var accumulator = initial\n    for (element in
this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.\n *^\npublic inline fun
<R> ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R {\n    var accumulator = initial\n    for (element in
this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n
* to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the
next accumulator value.\n *^\npublic inline fun <R> IntArray.fold(initial: R, operation: (acc: R, Int) -> R): R {\n
var accumulator = initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the
next accumulator value.\n *^\npublic inline fun <R> LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R

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{\n  var accumulator = initial\n  for (element in this) accumulator = operation(accumulator,
  element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
 [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified
 [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and
 an element, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.fold(initial: R,
 operation: (acc: R, Float) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator =
 operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
 value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns
 the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current
 accumulator value and an element, and calculates the next accumulator value.\n */\npublic
 inline fun <R> DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {\n  var accumulator = initial\n
 for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates
 value starting with [initial] value and applying [operation] from left to right\n * to current accumulator
 value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param
 [operation] function that takes current accumulator value and an element, and calculates the next accumulator
 value.\n */\npublic inline fun <R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {\n  var
 accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return
 accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
 right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial]
 value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an
 element, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.fold(initial: R, operation:
 (acc: R, Char) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator =
 operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
 value and applying [operation] from left to right\n * to current accumulator value and each element with its index in
 the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
 function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
 next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldIndexed(initial: R, operation: (index: Int,
 acc: R, T) -> R): R {\n  var index = 0\n  var accumulator = initial\n  for (element
 in this) accumulator = operation(index++, accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates
 value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and
 each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n
 * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the
 element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldIndexed(initial:
 R, operation: (index: Int, acc: R, Byte) -> R): R {\n  var index = 0\n  var accumulator = initial\n  for (element in
 this) accumulator = operation(index++, accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates
 value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and
 each element with its index in the original array.\n * \n * Returns
 the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
 element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n
public inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {\n  var
 index = 0\n  var accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator,
 element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
 [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n
 * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
 the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
 value.\n */\npublic inline fun <R> IntArray.foldIndexed(initial: R, operation: (index:
 Int, acc: R, Int) -> R): R {\n  var index = 0\n  var accumulator = initial\n  for (element in this) accumulator =
 operation(index++, accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with

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[initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> LongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> FloatArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <T, R> Array<out T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--),

```

accumulator)\n } \n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified
[initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.foldRight(initial:
R, operation: (Int, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0)
{\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes an element and current accumulator value, and calculates the next accumulator value.\n
*/\npublic inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {\n    var index =
lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--),
accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from right to left\n * to each element and
current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param
[operation] function that takes an element and current accumulator value, and calculates the next accumulator
value.\n */\npublic inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R): R {\n    var index
= lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--),
accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified
[initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>
DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {\n    var index = lastIndex\n    var
accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R)
-> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator =
operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next
accumulator value.\n */\npublic inline fun <R> CharArray.foldRight(initial: R, operation: (Char, acc: R) -> R): R
{\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator =
operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param
[operation] function that takes the index of an element, the element itself\n * and current accumulator value, and
calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRightIndexed(initial: R,
operation: (index: Int, T, acc: R) -> R): R {\n    var index = lastIndex\n    var
accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n
--index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n
*/\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator
value.\n */\npublic inline fun <R> ByteArray.foldRightIndexed(initial: R, operation: (index: Int, Byte, acc: R) -> R):
R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator =
operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates

```

value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

* public inline fun <R> ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

* public inline fun <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

* public inline fun <R> LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

* public inline fun <R> FloatArray.foldRightIndexed(initial: R, operation: (index: Int, Float, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

* public inline fun <R> DoubleArray.foldRightIndexed(initial: R, operation: (index: Int, Double, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

* public inline fun <R> BooleanArray.foldRightIndexed(initial: R, operation: (index: Int, Boolean, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```

* public inline fun <R> CharArray.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Performs the given [action] on each element.

```

* public inline fun <T>

```



```

Array<out T>.forEach(action: (T) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun ByteArray.forEach(action: (Byte) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun ShortArray.forEach(action: (Short) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun IntArray.forEach(action: (Int) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun LongArray.forEach(action: (Long) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun FloatArray.forEach(action: (Float) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun DoubleArray.forEach(action: (Double) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun BooleanArray.forEach(action: (Boolean) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n  var index = 0\n  for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {\n  var index = 0\n  for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit): Unit {\n  var index = 0\n  for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {\n  var index = 0\n  for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {\n  var index = 0\n  for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit): Unit {\n  var index = 0\n  for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {\n  var index = 0\n  for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {\n  var index = 0\n  for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n  var index = 0\n  for (item in this) action(index++, item)\n}\n\n/**\n * Returns the largest element.\n * @throws NoSuchElementException if the array is empty.\n */

```

```

*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun Array<out Double>.max(): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun Array<out Float>.max(): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun <T : Comparable<T>> Array<out T>.max(): T {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun ByteArray.max(): Byte {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun ShortArray.max(): Short {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun IntArray.max(): Int {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun LongArray.max(): Long {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun FloatArray.max(): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun DoubleArray.max(): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun CharArray.max(): Char {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow")\n@Suppress("CONFLICTING_OVERL

```

```

OADS`)npublic inline fun <T, R : Comparable<R>> Array<out T>.maxBy(selector: (T) -> R): T {n  if
(isEmpty()) throw NoSuchElementException()n  var maxElem = this[0]n  val lastIndex = this.lastIndexn  if
(lastIndex == 0) return maxElemn  var maxValue = selector(maxElem)n  for (i in 1..lastIndex) {n    val e =
this[i]n    val v = selector(e)n    if (maxValue < v) {n      maxElem = e      maxValue = v    }n  }n  return maxElem}n}n/n/**n * Returns the first element yielding the largest value of the given function.n * n *
* @throws NoSuchElementException if the array is empty.n * n * @sample
samples.collections.Collections.Aggregates.maxByn
*/n@SinceKotlin("1.7")n@kotlin.jvm.JvmName("maxByOrThrow")n@Suppress("CONFLICTING_OVERL
OADS`)npublic inline fun <R : Comparable<R>> ByteArray.maxBy(selector:
(Byte) -> R): Byte {n  if (isEmpty()) throw NoSuchElementException()n  var maxElem = this[0]n  val
lastIndex = this.lastIndexn  if (lastIndex == 0) return maxElemn  var maxValue = selector(maxElem)n  for (i
in 1..lastIndex) {n    val e = this[i]n    val v = selector(e)n    if (maxValue < v) {n      maxElem = e
maxValue = v    }n  }n  return maxElem}n}n/n/**n * Returns the first element yielding the largest value
of the given function.n * n * @throws NoSuchElementException if the array is empty.n * n * @sample
samples.collections.Collections.Aggregates.maxByn
*/n@SinceKotlin("1.7")n@kotlin.jvm.JvmName("maxByOrThrow")n@Suppress("CONFLICTING_OVERL
OADS`)npublic inline fun <R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R): Short {n  if
(isEmpty()) throw NoSuchElementException()n  var maxElem = this[0]n  val lastIndex = this.lastIndexn  if
(lastIndex == 0) return maxElemn
  var maxValue = selector(maxElem)n  for (i in 1..lastIndex) {n    val e = this[i]n    val v = selector(e)n
if (maxValue < v) {n      maxElem = e      maxValue = v    }n  }n  return maxElem}n}n/n/**n *
Returns the first element yielding the largest value of the given function.n * n * @throws
NoSuchElementException if the array is empty.n * n * @sample
samples.collections.Collections.Aggregates.maxByn
*/n@SinceKotlin("1.7")n@kotlin.jvm.JvmName("maxByOrThrow")n@Suppress("CONFLICTING_OVERL
OADS`)npublic inline fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int {n  if (isEmpty())
throw NoSuchElementException()n  var maxElem = this[0]n  val lastIndex = this.lastIndexn  if (lastIndex ==
0) return maxElemn  var maxValue = selector(maxElem)n  for (i in 1..lastIndex) {n    val e = this[i]n    val
v = selector(e)n    if (maxValue < v) {n      maxElem = e      maxValue
= v    }n  }n  return maxElem}n}n/n/**n * Returns the first element yielding the largest value of the given
function.n * n * @throws NoSuchElementException if the array is empty.n * n * @sample
samples.collections.Collections.Aggregates.maxByn
*/n@SinceKotlin("1.7")n@kotlin.jvm.JvmName("maxByOrThrow")n@Suppress("CONFLICTING_OVERL
OADS`)npublic inline fun <R : Comparable<R>> LongArray.maxBy(selector: (Long) -> R): Long {n  if
(isEmpty()) throw NoSuchElementException()n  var maxElem = this[0]n  val lastIndex = this.lastIndexn  if
(lastIndex == 0) return maxElemn  var maxValue = selector(maxElem)n  for (i in 1..lastIndex) {n    val e =
this[i]n    val v = selector(e)n    if (maxValue < v) {n      maxElem = e      maxValue = v    }n  }n
}n  return maxElem}n}n/n/**n * Returns the first element yielding the largest value of the given function.n * n *
* @throws NoSuchElementException if the array is
empty.n * n * @sample samples.collections.Collections.Aggregates.maxByn
*/n@SinceKotlin("1.7")n@kotlin.jvm.JvmName("maxByOrThrow")n@Suppress("CONFLICTING_OVERL
OADS`)npublic inline fun <R : Comparable<R>> FloatArray.maxBy(selector: (Float) -> R): Float {n  if
(isEmpty()) throw NoSuchElementException()n  var maxElem = this[0]n  val lastIndex = this.lastIndexn  if
(lastIndex == 0) return maxElemn  var maxValue = selector(maxElem)n  for (i in 1..lastIndex) {n    val e =
this[i]n    val v = selector(e)n    if (maxValue < v) {n      maxElem = e      maxValue = v    }n  }n
}n  return maxElem}n}n/n/**n * Returns the first element yielding the largest value of the given function.n * n *
* @throws NoSuchElementException if the array is empty.n * n * @sample
samples.collections.Collections.Aggregates.maxByn

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*\/n@SinceKotlin("1.7")n@kotlin.jvm.JvmName("maxByOrThrow")n@Suppress("CONFLICTING_OVERL
OADS")npublic inline
fun <R : Comparable<R>> DoubleArray.maxBy(selector: (Double) -> R): Double {n if (isEmpty()) throw
NoSuchElementException()n var maxElem = this[0]n val lastIndex = this.lastIndexn if (lastIndex == 0)
return maxElemn var maxValue = selector(maxElem)n for (i in 1..lastIndex) {n val e = this[i]n val v
= selector(e)n if (maxValue < v) {n maxElem = e\n maxValue = v\n }n }n return
maxElemn}n/n/**n * Returns the first element yielding the largest value of the given function.n * n * @throws
NoSuchElementException if the array is empty.n * n * @sample
samples.collections.Collections.Aggregates.maxByn
*\/n@SinceKotlin("1.7")n@kotlin.jvm.JvmName("maxByOrThrow")n@Suppress("CONFLICTING_OVERL
OADS")npublic inline fun <R : Comparable<R>> BooleanArray.maxBy(selector: (Boolean) -> R): Boolean {n
if (isEmpty()) throw NoSuchElementException()n var maxElem = this[0]n val lastIndex = this.lastIndexn
if (lastIndex == 0) return maxElemn var maxValue = selector(maxElem)n for (i in 1..lastIndex) {n val e
= this[i]n val v = selector(e)n if (maxValue < v) {n maxElem = e\n maxValue = v\n }n
}n return maxElemn}n/n/**n * Returns the first element yielding the largest value of the given function.n * n
* @throws NoSuchElementException if the array is empty.n * n * @sample
samples.collections.Collections.Aggregates.maxByn
*\/n@SinceKotlin("1.7")n@kotlin.jvm.JvmName("maxByOrThrow")n@Suppress("CONFLICTING_OVERL
OADS")npublic inline fun <R : Comparable<R>> CharArray.maxBy(selector: (Char) -> R): Char {n if
(isEmpty()) throw NoSuchElementException()n var maxElem = this[0]n val lastIndex = this.lastIndexn if
(lastIndex == 0) return maxElemn var maxValue = selector(maxElem)n for (i in 1..lastIndex) {n val e =
this[i]n val v = selector(e)n if (maxValue < v)
{n maxElem = e\n maxValue = v\n }n }n return maxElemn}n/n/**n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.n * n * @sample
samples.collections.Collections.Aggregates.maxByOrNulln *\/n@SinceKotlin("1.4")npublic inline fun <T, R :
Comparable<R>> Array<out T>.maxByOrNull(selector: (T) -> R): T? {n if (isEmpty()) return nulln var
maxElem = this[0]n val lastIndex = this.lastIndexn if (lastIndex == 0) return maxElemn var maxValue =
selector(maxElem)n for (i in 1..lastIndex) {n val e = this[i]n val v = selector(e)n if (maxValue < v)
{n maxElem = e\n maxValue = v\n }n }n return maxElemn}n/n/**n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.n * n * @sample
samples.collections.Collections.Aggregates.maxByOrNulln *\/n@SinceKotlin("1.4")npublic
inline fun <R : Comparable<R>> ByteArray.maxByOrNull(selector: (Byte) -> R): Byte? {n if (isEmpty()) return
nulln var maxElem = this[0]n val lastIndex = this.lastIndexn if (lastIndex == 0) return maxElemn var
maxValue = selector(maxElem)n for (i in 1..lastIndex) {n val e = this[i]n val v = selector(e)n if
(maxValue < v) {n maxElem = e\n maxValue = v\n }n }n return maxElemn}n/n/**n *
Returns the first element yielding the largest value of the given function or `null` if there are no elements.n * n
* @sample samples.collections.Collections.Aggregates.maxByOrNulln *\/n@SinceKotlin("1.4")npublic inline fun
<R : Comparable<R>> ShortArray.maxByOrNull(selector: (Short) -> R): Short? {n if (isEmpty()) return nulln
var maxElem = this[0]n val lastIndex = this.lastIndexn if (lastIndex == 0) return maxElemn var maxValue =
selector(maxElem)n for (i in 1..lastIndex)
{n val e = this[i]n val v = selector(e)n if (maxValue < v) {n maxElem = e\n maxValue
= v\n }n }n return maxElemn}n/n/**n * Returns the first
element yielding the largest value of the given
function or `null` if there are no elements.n * n * @sample
samples.collections.Collections.Aggregates.maxByOrNulln *\/n@SinceKotlin("1.4")npublic inline fun <R :
Comparable<R>> IntArray.maxByOrNull(selector: (Int) -> R): Int? {n if (isEmpty()) return nulln var maxElem
= this[0]n val lastIndex = this.lastIndexn if (lastIndex == 0) return maxElemn var maxValue =
selector(maxElem)n for (i in 1..lastIndex) {n val e = this[i]n val v = selector(e)n if (maxValue < v)
{n maxElem = e\n maxValue = v\n }n }n return maxElemn}n/n/**n * Returns the first

```

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element yielding the largest value of the given function or `null` if there are no elements.\n * \n
 * @sample samples.collections.Collections.Aggregates.maxByOrNull\n *^\n@SinceKotlin("1.4")\npublic inline
fun <R : Comparable<R>> LongArray.maxByOrNull(selector: (Long) -> R): Long? {\n if (isEmpty()) return
null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var
maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if
(maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n *
Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.maxByOrNull\n *^\n@SinceKotlin("1.4")\npublic inline fun
<R : Comparable<R>> FloatArray.maxByOrNull(selector: (Float) -> R): Float? {\n if (isEmpty()) return null\n
var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex ==
0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n
val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return
maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are
no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*^\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> DoubleArray.maxByOrNull(selector: (Double)
-> R): Double? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n
return maxElem\n}\n\n/**\n * Returns the first element
yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n *^\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> BooleanArray.maxByOrNull(selector: (Boolean) -> R): Boolean? {\n if (isEmpty()) return
null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var
maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if
(maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n *
Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.maxByOrNull\n *^\n@SinceKotlin("1.4")\npublic inline fun
<R : Comparable<R>> CharArray.maxByOrNull(selector: (Char) -> R): Char? {\n if (isEmpty())
return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n
var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if
(maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*^\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*^\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of

```

values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 @throws NoSuchElementException if the array is empty.

```

*\/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) ->
Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return
    maxValue
}

```

Returns the largest value among all values produced by [selector] function applied to each element in the array. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 @throws NoSuchElementException if the array is empty.

```

*\/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic
inline fun IntArray.maxOf(selector: (Int) -> Double): Double {
    if (isEmpty()) throw
    NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
        selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

```

Returns the largest value among all values produced by [selector] function applied to each element in the array. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 @throws NoSuchElementException if the array is empty.

```

*\/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) ->
Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
        selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

```

Returns the largest value among all values produced by [selector] function applied to each element in the array. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 @throws NoSuchElementException if the array is empty.

```

*\/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) ->
Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return
    maxValue
}

```

Returns the largest value among all values produced by [selector] function applied to each element in the array. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 @throws NoSuchElementException if the array is empty.

```

*\/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) ->
Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return
    maxValue
}

```

Returns the largest value among all values produced by [selector] function applied to each element in the array. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 @throws NoSuchElementException if the array is empty.

```

*\/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic
inline fun BooleanArray.maxOf(selector: (Boolean) -> Double): Double {
    if (isEmpty()) throw
    NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
        selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

```

Returns the largest value among all values produced by [selector] function applied to each element in the array. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 @throws NoSuchElementException if the array is empty.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) ->\nDouble): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n/**\n * Returns the largest value among all\n values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by\n [selector] function is `NaN`, the returned result is `NaN`. \n * \n * @throws NoSuchElementException if the array is\n empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) ->\nFloat): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i\nin 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return\nmaxValue\n}\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to\n each element in the array.\n * \n * If any of values produced by [selector]\n function is `NaN`, the returned result is `NaN`. \n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) -> Float):\nFloat {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in\n1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return\nmaxValue\n}\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to\n each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`. \n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic\ninline fun ShortArray.maxOf(selector: (Short) -> Float): Float {\n    if (isEmpty()) throw\nNoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =\nselector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n/**\n * Returns the\n largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If\n any of values produced by [selector] function is `NaN`, the returned result is `NaN`. \n * \n * @throws\n NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Float):\nFloat {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in\n1..lastIndex) {\n        val v = selector(this[i])\n        maxValue\n= maxOf(maxValue, v)\n    }\n    return maxValue\n}\n/**\n * Returns the largest value among all values\n produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by\n [selector] function is `NaN`, the returned result is `NaN`. \n * \n * @throws\n NoSuchElementException if the array is\n empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) ->\nFloat): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i\nin 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return\nmaxValue\n}\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to\n each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the\n returned result is `NaN`. \n * \n * @throws\n NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) ->\nFloat): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i
```

```

in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n } \n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.maxOf(selector: (Double) -> Float): Float {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) ->
Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i
in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue,
v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`,
the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) -> Float):
Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i
in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R : Comparable<R>> Array<out T>.maxOf(selector: (T) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.maxOf(selector: (Byte) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
maxValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.maxOf(selector: (Short) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n           
maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException
if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```



```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.maxOf(selector: (Int) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var maxValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.maxOf(selector: (Long) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue <
v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.maxOf(selector: (Float) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element
in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.maxOf(selector: (Double) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.maxOf(selector: (Boolean)
-> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var maxValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n
return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.maxOf(selector: (Char) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *
*\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOfOrNull(selector:
(T) -> Double): Double? {\n  if (isEmpty()) return null\n  var maxValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.maxOrNull(selector: (Byte) -> Double): Double? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOrNull(selector: (Short) -
> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)
{\n val v = selector(this[i])\n
maxValue = maxOf(maxValue, v)\n }\n return maxValue}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *
\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOrNull(selector: (Int) ->
Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n
maxValue = maxOf(maxValue, v)\n }\n return maxValue}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null`
if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOrNull(selector: (Long) -
> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)
{\n val v = selector(this[i])\n
maxValue = maxOf(maxValue, v)\n }\n return maxValue}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array
or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned
result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOrNull(selector: (Float) -
> Double): Double? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n
maxValue = maxOf(maxValue, v)\n }\n return maxValue}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *
\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOrNull(selector:
(Double) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n
maxValue = maxOf(maxValue, v)\n }\n return
maxValue}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOrNull(selector:
(Boolean) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n
maxValue = maxOf(maxValue, v)\n }\n return
maxValue}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n

```

is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun CharArray.maxOfOrNull(selector: (Char) -> Double): Double? {\n    if (isEmpty()) return null\n    var\n    maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue =\n        maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of\n * values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOfOrNull(selector:
```

```
(T) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex)\n    {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector]\n * function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOfOrNull(selector: (Byte) ->
```

```
Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns\n * the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n * if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n * `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun ShortArray.maxOfOrNull(selector: (Short) -> Float): Float? {\n    if (isEmpty()) return null\n    var\n    maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue =\n        maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of\n * values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOfOrNull(selector: (Int) ->
```

```
Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return\n    maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to\n * each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function\n * is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOfOrNull(selector: (Long) -
```

```
> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns\n * the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n * if there are no elements.\n */
```

\* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOfOrNull(selector: (Float) -
```

```
> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns\n * the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n */
```

if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOfOrNull(selector:\n (Double) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return\n    maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function\n * is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOfOrNull(selector:\n (Boolean) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return\n    maxValue\n}\n\n/**\n * Returns the largest value among all
```

```
values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOfOrNull(selector: (Char) ->\n Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns\n * the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n * if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T,\n R : Comparable<R>> Array<out T>.maxOfOrNull(selector: (T) -> R): R? {\n    if (isEmpty()) return null\n    var\n    maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\n ByteArray.maxOfOrNull(selector: (Byte) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\n ShortArray.maxOfOrNull(selector: (Short) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\n IntArray.maxOfOrNull(selector: (Int) -> R):\n R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =\n        selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array\n * or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
```

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.maxOfOrNull(selector: (Long) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the
array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.maxOfOrNull(selector: (Float) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.maxOfOrNull(selector: (Double) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue =
selector(this[0])\n
  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n
}\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.maxOfOrNull(selector: (Boolean) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> CharArray.maxOfOrNull(selector: (Char) -> R): R? {\n  if (isEmpty()) return
null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value
according to the provided [comparator]\n * among all values produced by [selector] function applied to each
element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n  if (isEmpty()) throw
NoSuchElementException()\n
  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.maxOfWith(comparator:
Comparator<in R>, selector: (Byte) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.maxOfWith(comparator:
Comparator<in R>, selector: (Short) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.maxOfWith(comparator: Comparator<in R>, selector: (Int) -> R): R {\n  if (isEmpty())
throw NoSuchElementException()\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n  }\n  return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.maxOfWith(comparator:
Comparator<in R>, selector:
(Long) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var maxValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (comparator.compare(maxValue, v) < 0) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.maxOfWith(comparator:
Comparator<in R>, selector: (Float) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(maxValue, v) < 0) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value according to the
provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n
*\n * @throws NoSuchElementException if the array is empty.\n
*\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.maxOfWith(comparator:
Comparator<in R>, selector: (Double) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n * @throws NoSuchElementException if the array is empty.\n
*\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.maxOfWith(comparator:
Comparator<in R>, selector: (Boolean) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline

```

```

fun <R> CharArray.maxOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {
    if (isEmpty())
        throw NoSuchElementException()
    var maxV = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxV, v) < 0)
            maxV = v
    }
    return maxV
}
/** Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    if (isEmpty()) return null
    var maxV = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxV, v) < 0)
            maxV = v
    }
    return maxV
}
/** Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> ByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {
    if (isEmpty()) return null
    var maxV = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxV, v) < 0)
            maxV = v
    }
    return maxV
}
/** Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> ShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {
    if (isEmpty()) return null
    var maxV = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxV, v) < 0)
            maxV = v
    }
    return maxV
}
/** Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> IntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {
    if (isEmpty()) return null
    var maxV = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxV, v) < 0)
            maxV = v
    }
    return maxV
}
/** Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> LongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {
    if (isEmpty()) return null
    var maxV = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxV, v) < 0)
            maxV = v
    }
    return maxV
}
/** Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> FloatArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {
    if (isEmpty()) return null
    var maxV = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxV, v) < 0)
            maxV = v
    }
    return maxV
}

```

```

Returns the largest value according to the provided [comparator] * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.
*/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic
inline fun <R> DoubleArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n
if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator] * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)
{\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n
}\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator] *
among all values produced by [selector] function applied to each element in the array or `null` if there are no
elements.\n
*/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty()) return
null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN`
returns `NaN`.\n */@SinceKotlin("1.4")\npublic fun Array<out Double>.maxOrNull(): Double? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max =
maxOf(max, e)\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n *
\n * If any of elements is `NaN` returns `NaN`.\n */@SinceKotlin("1.4")\npublic fun Array<out
Float>.maxOrNull(): Float? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n max = maxOf(max, e)\n }\n return max\n}\n\n/**\n * Returns the largest element or `null`
if there are no elements.\n */@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.maxOrNull():
T? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest
element or `null` if there are no elements.\n */@SinceKotlin("1.4")\npublic fun ByteArray.maxOrNull(): Byte?
{\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max <
e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*/@SinceKotlin("1.4")\npublic fun ShortArray.maxOrNull(): Short? {\n if (isEmpty()) return null\n var max
= this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n */@SinceKotlin("1.4")\npublic fun
IntArray.maxOrNull(): Int? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null`
if there are no elements.\n */@SinceKotlin("1.4")\npublic
fun LongArray.maxOrNull(): Long? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex)
{\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or
`null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*/@SinceKotlin("1.4")\npublic fun FloatArray.maxOrNull(): Float? {\n if (isEmpty()) return null\n var max
= this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n return
max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements
is `NaN` returns `NaN`.\n */@SinceKotlin("1.4")\npublic fun DoubleArray.maxOrNull(): Double? {\n if (isEmpty())

```



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return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    max = maxOf(max, e)\n  }\n  return max\n}\n\n/**\n * Returns the largest element or `null`\n if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun CharArray.maxOrNull(): Char? {\n  if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (max < e) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T {\n  if (isEmpty()) throw NoSuchElementException()\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte {\n  if (isEmpty()) throw NoSuchElementException()\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun ShortArray.maxWith(comparator: Comparator<in Short>): Short {\n  if (isEmpty()) throw NoSuchElementException()\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun IntArray.maxWith(comparator: Comparator<in Int>): Int {\n  if (isEmpty()) throw NoSuchElementException()\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun LongArray.maxWith(comparator: Comparator<in Long>): Long {\n  if (isEmpty()) throw NoSuchElementException()\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun FloatArray.maxWith(comparator: Comparator<in Float>): Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided

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[comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun BooleanArray.maxWith(comparator: Comparator<in Boolean>): Boolean {\n if (isEmpty()) throw NoSuchElementException()\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun CharArray.maxWith(comparator: Comparator<in Char>): Char {\n if (isEmpty()) throw NoSuchElementException()\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun <T> Array<out T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun ByteArray.maxWithOrNull(comparator: Comparator<in Byte>): Byte? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun ShortArray.maxWithOrNull(comparator: Comparator<in Short>): Short? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun IntArray.maxWithOrNull(comparator: Comparator<in Int>): Int? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun LongArray.maxWithOrNull(comparator: Comparator<in Long>): Long? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun FloatArray.maxWithOrNull(comparator: Comparator<in Float>): Float? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.maxWithOrNull(comparator: Comparator<in Double>): Double? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun BooleanArray.maxWithOrNull(comparator: Comparator<in Boolean>): Boolean? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun CharArray.maxWithOrNull(comparator: Comparator<in Char>): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the smallest element.\n * \n * If any of elements is `NaN`

```

```

returns `NaN`.n * .n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun Array<out Double>.min(): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        min = minOf(min, e)\n    }\n    return min\n}\n\n/**n * Returns the smallest element.n * .n * If any of elements is `NaN` returns `NaN`.n * .n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun Array<out Float>.min(): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        min = minOf(min, e)\n    }\n    return min\n}\n\n/**n * Returns the smallest element.n * .n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun <T : Comparable<T>> Array<out T>.min(): T {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**n * Returns the smallest element.n * .n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun ByteArray.min(): Byte {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**n * Returns the smallest element.n * .n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun ShortArray.min(): Short {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**n * Returns the smallest element.n * .n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun IntArray.min(): Int {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**n * Returns the smallest element.n * .n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun LongArray.min(): Long {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**n * Returns the smallest element.n * .n * If any of elements is `NaN` returns `NaN`.n * .n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun FloatArray.min(): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        min = minOf(min, e)\n    }\n    return min\n}\n\n/**n * Returns the smallest element.n * .n * If any of elements is `NaN` returns `NaN`.n * .n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun DoubleArray.min(): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        min = minOf(min, e)\n    }\n    return min\n}\n\n/**n * Returns the smallest element.n * .n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun CharArray.min(): Char {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**n * Returns the first element yielding the smallest value of the given function.n * .n * @throws

```

```

NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS")\npublic
inline fun <T, R : Comparable<R>> Array<out T>.minBy(selector: (T) -> R): T {\n if (isEmpty()) throw
NoSuchElementException()\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0)
return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v =
selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return
minElem\n}\n\n**\n * Returns the first element yielding the smallest value of the given function.\n * \n * @throws
NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS")\npublic inline fun <R : Comparable<R>> ByteArray.minBy(selector: (Byte) -> R): Byte {\n if (isEmpty())
throw NoSuchElementException()\n var minElem = this[0]\n
val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n
for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem =
e\n minValue = v\n }\n }\n return minElem\n}\n\n**\n * Returns the first element yielding the
smallest value of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n *
@sample samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS")\npublic inline fun <R : Comparable<R>> ShortArray.minBy(selector: (Short) -> R): Short {\n if
(isEmpty()) throw NoSuchElementException()\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n
if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n**\n *
Returns the first element yielding the smallest value of the given function.\n * \n * @throws
NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS")\npublic inline fun <R : Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int {\n if (isEmpty())
throw NoSuchElementException()\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex ==
0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n
val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return
minElem\n}\n\n**\n * Returns the first element yielding the smallest value
of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS")\npublic inline fun <R : Comparable<R>> LongArray.minBy(selector: (Long) -> R): Long {\n if
(isEmpty()) throw NoSuchElementException()\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n
return minElem\n}\n\n**\n * Returns the first element yielding the smallest value of the given function.\n * \n
* @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS")\npublic
inline fun <R : Comparable<R>> FloatArray.minBy(selector: (Float) -> R): Float {\n if (isEmpty()) throw
NoSuchElementException()\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0)

```

```

return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v =
selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return
minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function.\n * \n * @throws
NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS")\npublic inline fun <R : Comparable<R>> DoubleArray.minBy(selector: (Double) -> R): Double {\n    if
(isEmpty()) throw NoSuchElementException()\n
    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue
= selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue >
v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function.\n * \n * @throws NoSuchElementException if the array is
empty.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS")\npublic inline fun <R : Comparable<R>> BooleanArray.minBy(selector: (Boolean) -> R): Boolean {\n    if
(isEmpty()) throw NoSuchElementException()\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if
(lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex)
{\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue
= v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given
function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS")\npublic inline fun <R : Comparable<R>> CharArray.minBy(selector: (Char) -> R): Char {\n    if
(isEmpty()) throw NoSuchElementException()\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if
(lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n
    }\n    return minElem\n}\n\n/**\n * Returns
the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun
<T, R : Comparable<R>> Array<out T>.minByOrNull(selector: (T) -> R): T? {\n    if (isEmpty()) return null\n    var
minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =
selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue >
v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> ByteArray.minByOrNull(selector: (Byte) -> R): Byte? {\n    if
(isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return
minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v =
selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return
minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there
are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> ShortArray.minByOrNull(selector: (Short) ->
R): Short? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if
(lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem
= e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element yielding the
smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R :

```

```

Comparable<R>> IntArray.minByOrNull(selector: (Int) -> R): Int? {\n  if (isEmpty()) return null\n  var minElem
= this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue =
selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v)
{\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline
fun <R : Comparable<R>> LongArray.minByOrNull(selector: (Long) -> R): Long? {\n  if (isEmpty()) return
null\n  var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var
minValue = selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if
(minValue > v) {\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n *
Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.minByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun
<R : Comparable<R>> FloatArray.minByOrNull(selector: (Float) -> R): Float? {\n  if (isEmpty()) return null\n
var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue =
selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v) {\n
minElem = e\n    minValue = v\n  }\n}\n  return minElem\n}\n\n/**\n * Returns the first element yielding the
smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> DoubleArray.minByOrNull(selector: (Double)
-> R): Double? {\n  if (isEmpty()) return null\n  var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if
(lastIndex == 0) return minElem\n  var minValue = selector(minElem)\n  for (i in 1..lastIndex) {\n    val e =
this[i]\n    val v = selector(e)\n    if (minValue > v) {\n      minElem = e\n      minValue = v\n    }\n  }\n
return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> BooleanArray.minByOrNull(selector:
(Boolean) -> R): Boolean? {\n  if (isEmpty()) return null\n  var minElem = this[0]\n  val lastIndex =
this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue = selector(minElem)\n  for (i in
1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v) {\n      minElem = e\n
minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value
of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> CharArray.minByOrNull(selector: (Char) -> R): Char? {\n  if (isEmpty()) return null\n  var
minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return
minElem\n  var minValue = selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v =
selector(e)\n    if (minValue > v) {\n      minElem = e\n      minValue = v\n    }\n  }\n  return
minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOf(selector: (Byte) ->

```

```
Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return
    minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 * @throws NoSuchElementException
```

```
if the array is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) ->
```

```
Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return
    minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 * @throws NoSuchElementException if the array is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) ->
```

```
Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return
    minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 * @throws NoSuchElementException if the array is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOf(selector: (Long) ->
```

```
Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return
    minValue
}

/**
```

```
Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 * @throws NoSuchElementException if the array is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) ->
```

```
Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return
    minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 * @throws NoSuchElementException
```

```
if the array is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) ->
```

```
Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return
    minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 * @throws NoSuchElementException if the array is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) ->
```

```
Double):
```

```
Double {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in
    1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return
```

minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns
the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) ->
Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in
1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException
if the array is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOf(selector: (Byte) -> Float):
Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in
1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException
if the array is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) ->
Float): Float {\n
    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex)
{\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n
* Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n *
@throws NoSuchElementException if the array is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Float):
Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in
1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the array is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOf(selector: (Long) ->
Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in
1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is

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`NaN`.n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) ->
Float): Float {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced
by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array
is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R : Comparable<R>> Array<out T>.minOf(selector: (T) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.minOf(selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v)
{\n minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.minOf(selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n

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    minValue = v\n    }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> IntArray.minOf(selector: (Int) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.minOf(selector: (Long) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.minOf(selector: (Float) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.minOf(selector: (Double) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.minOf(selector: (Boolean) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.minOf(selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue
= selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the
array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOfOrNull(selector:

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(T) -> Double): Double? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOfOrNull(selector: (Byte) -> Double): Double? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOfOrNull(selector: (Short) -> Double): Double? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOfOrNull(selector: (Int) -> Double): Double? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOfOrNull(selector: (Long) -> Double): Double? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOfOrNull(selector: (Float) -> Double): Double? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOfOrNull(selector: (Double) -> Double): Double? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOrNull(selector:
(Boolean) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOrNull(selector:
(Char) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOrNull(selector:
(T) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex)
{\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value among
all values produced by [selector] function\n * applied to each element in the array or `null` if there are no
elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOrNull(selector: (Byte) ->
Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if
there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun ShortArray.minOrNull(selector: (Short) -> Float): Float? {\n if (isEmpty()) return null\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOrNull(selector: (Int) ->
Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *
*\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOrNull(selector: (Long) -
> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if
there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`,

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the returned result is `NaN`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOrNull(selector: (Float) ->\nFloat): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is\n * `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOrNull(selector:\n(Double) -> Float): Float? {\n    if (isEmpty())\n        return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all\n * values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOrNull(selector:\n(Boolean) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in\n        1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\n        minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n * each
```

element in the array or `null` if there are no elements. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOrNull(selector: (Char) ->\nFloat): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out\nT>.minOrNull(selector: (T)\n-> R): R? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v\n        = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array\n * or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nByteArray.minOrNull(selector: (Byte) -> R): R? {\n    if (isEmpty()) return null\n    var minValue =\n        selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each\n * element in the array or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nShortArray.minOrNull(selector: (Short) -> R): R? {\n    if (isEmpty()) return null\n    var minValue =\n        selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
```

```

by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.minOfOrNull(selector: (Int) -> R): R? {\n if (isEmpty()) return null\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.minOfOrNull(selector: (Long) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> FloatArray.minOfOrNull(selector: (Float) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(minValue > v) {\n minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no
elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.minOfOrNull(selector: (Double) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.minOfOrNull(selector: (Boolean) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> CharArray.minOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(minValue > v) {\n minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value
according to the provided [comparator]\n * among all values produced by [selector] function applied to each
element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n
for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n

```

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.minOfWith(comparator:  
Comparator<in R>, selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var  
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if  
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value according

to the provided [comparator]\n \* among all values produced by [selector] function applied to each element in the  
array.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.minOfWith(comparator:  
Comparator<in R>, selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var  
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if  
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value according to the provided [comparator]\n \* among all values produced by [selector]

function applied to each element in the array.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

inline fun <R> IntArray.minOfWith(comparator: Comparator<in R>, selector: (Int) -> R): R {\n if (isEmpty())  
throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =  
selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return  
minValue\n}\n\n/\*\*\n \* Returns the smallest value according to the provided [comparator]\n \* among all values  
produced by [selector] function applied to each element in the array.\n \* \n \* @throws NoSuchElementException if  
the array is empty.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.minOfWith(comparator:  
Comparator<in R>, selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n

var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if  
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value according to the provided [comparator]\n \* among all values produced by [selector]

function applied to each element in the array.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.minOfWith(comparator:  
Comparator<in R>, selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var  
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if  
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return

minValue\n}\n\n/\*\*\n \* Returns the smallest value according to the provided [comparator]\n \* among all values  
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\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.minOfWith(comparator:  
Comparator<in R>, selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var  
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if  
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value according to the provided [comparator]\n \* among all values produced by [selector]

function applied to each element in the array.\n \* \n \* @throws NoSuchElementException if the array  
is empty.\n

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Comparator<in R>, selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var  
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if  
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value according to the provided [comparator]\n \* among all values produced by [selector]

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Comparator<in R>, selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var  
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if  
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value according to the provided [comparator]\n \* among all values produced by [selector]

```

Comparator<in R>, selector: (Boolean) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/*\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
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ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <R> CharArray.minOfWith(comparator:
Comparator<in
R>, selector: (Char) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (comparator.compare(minValue,
v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/*\n * Returns the smallest value
according to the provided [comparator]\n * among all values produced by [selector] function applied to each
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ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <T, R> Array<out
T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n  if (isEmpty()) return null\n
var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue
= v\n    }\n  }\n  return minValue\n}\n\n/*\n * Returns the smallest value according to the provided
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ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <R>
ByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {\n  if (isEmpty()) return
null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/*\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n * \n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution
ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <R>
ShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n  if
(isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return
minValue\n}\n\n/*\n * Returns the smallest value according to the provided [comparator]\n * among all values
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*\n * \n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution
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IntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n  if (isEmpty()) return
null\n
var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/*\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n * \n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution
ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <R>
LongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n  if (isEmpty()) return
null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/*\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n * \n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution
ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <R>

```



Returns the smallest value according to the

provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
```

```
FloatArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n    if (isEmpty()) return\n    null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
```

```
(comparator.compare(minValue, v) > 0) {\n        minValue = v\n    }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun <R> DoubleArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
```

```
selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return\n    minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
```

```
BooleanArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n    if (isEmpty())\n    return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return
```

```
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
```

```
CharArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n    if (isEmpty()) return\n    null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
```

```
(comparator.compare(minValue, v) > 0) {\n        minValue = v\n    }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements. * If any of elements is `NaN` returns `NaN`.
```

```
*\n@SinceKotlin("1.4")\npublic
```

```
fun Array<out Double>.minOrNull(): Double? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in\n    1..lastIndex) {\n        val e = this[i]\n        min = minOf(min, e)\n    }\n    return min\n}\n\n/**\n * Returns the\n    smallest element or `null` if there are no elements. * If any of elements is `NaN` returns `NaN`.
```

```
*\n@SinceKotlin("1.4")\npublic fun Array<out Float>.minOrNull(): Float? {\n    if (isEmpty()) return null\n    var\n    min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        min = minOf(min, e)\n    }\n    return
```

```
min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.minOrNull(): T? {\n    if (isEmpty())\n    return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there
```

```
are no elements.\n *\n@SinceKotlin("1.4")\npublic fun ByteArray.minOrNull(): Byte? {\n    if (isEmpty()) return\n    null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return
```

```
min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n@SinceKotlin("1.4")\npublic fun ShortArray.minOrNull(): Short? {\n    if (isEmpty()) return null\n    var min =
```

```
this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n@SinceKotlin("1.4")\npublic fun IntArray.minOrNull(): Int? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val
```

```
e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if
```

```

there are no elements.\n *\n@SinceKotlin("1.4")\npublic fun
LongArray.minOrNull(): Long? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if
there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic fun
FloatArray.minOrNull(): Float? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null`
if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic fun
DoubleArray.minOrNull(): Double? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex)
{\n val e = this[i]\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or
`null` if there are no
elements.\n *\n@SinceKotlin("1.4")\npublic fun CharArray.minOrNull(): Char? {\n if (isEmpty()) return null\n
var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return
min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator].\n * \n
* @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T {\n if (isEmpty()) throw
NoSuchElementException()\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is
empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic
fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte {\n if (isEmpty()) throw
NoSuchElementException()\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is
empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic fun ShortArray.minWith(comparator: Comparator<in Short>): Short {\n if (isEmpty()) throw
NoSuchElementException()\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided
[comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic fun IntArray.minWith(comparator: Comparator<in Int>): Int {\n if (isEmpty()) throw
NoSuchElementException()\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is
empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic fun LongArray.minWith(comparator: Comparator<in Long>): Long {\n if (isEmpty()) throw
NoSuchElementException()\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n
return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided
[comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic fun FloatArray.minWith(comparator: Comparator<in Float>): Float {\n if (isEmpty()) throw
NoSuchElementException()\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if

```

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(comparator.compare(min, e) > 0) min = e\n } \n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is
empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic fun DoubleArray.minWith(comparator: Comparator<in Double>): Double {\n if (isEmpty())
throw NoSuchElementException()\n var min = this[0]\n for
(i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n } \n return
min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator].\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic fun BooleanArray.minWith(comparator: Comparator<in Boolean>): Boolean {\n if
(isEmpty()) throw NoSuchElementException()\n var min = this[0]\n for (i in 1..lastIndex) {\n val e =
this[i]\n if (comparator.compare(min, e) > 0) min = e\n } \n return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator].\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic fun CharArray.minWith(comparator:
Comparator<in Char>): Char {\n if (isEmpty()) throw NoSuchElementException()\n var min = this[0]\n for (i
in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n } \n return
min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or
`null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun <T> Array<out
T>.minWithOrNull(comparator: Comparator<in T>): T? {\n if (isEmpty()) return null\n var min = this[0]\n for
(i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n } \n return
min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or
`null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun ByteArray.minWithOrNull(comparator:
Comparator<in Byte>): Byte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex)
{\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n } \n return min\n}\n\n/**\n * Returns
the first element having the smallest value according to the provided [comparator] or `null` if there are no
elements.\n
*\n@SinceKotlin("1.4")\npublic fun ShortArray.minWithOrNull(comparator: Comparator<in Short>):
Short? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n } \n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun IntArray.minWithOrNull(comparator: Comparator<in Int>): Int? {\n if
(isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n } \n return min\n}\n\n/**\n * Returns
the first element having the smallest value according to the provided [comparator] or `null` if there are no
elements.\n
*\n@SinceKotlin("1.4")\npublic fun LongArray.minWithOrNull(comparator: Comparator<in Long>):
Long? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n } \n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun FloatArray.minWithOrNull(comparator: Comparator<in Float>): Float? {\n
if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n } \n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic
fun DoubleArray.minWithOrNull(comparator: Comparator<in Double>): Double? {\n if (isEmpty()) return null\n
var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min =
e\n } \n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided

```

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[comparator] or `null` if there are no elements.\n *^/\n@SinceKotlin("1.4")\npublic fun
BooleanArray.minWithOrNull(comparator: Comparator<in Boolean>): Boolean? {\n  if (isEmpty()) return null\n
var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min =
e\n  }\n  return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided
[comparator] or `null` if there are no elements.\n *^/\n@SinceKotlin("1.4")\npublic fun
CharArray.minWithOrNull(comparator: Comparator<in Char>): Char? {\n  if (isEmpty()) return
null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0)
min = e\n  }\n  return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *^/\npublic fun <T> Array<out T>.none(): Boolean {\n  return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *^/\npublic fun ByteArray.none(): Boolean {\n  return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *^/\npublic fun ShortArray.none(): Boolean {\n  return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *^/\npublic fun IntArray.none(): Boolean {\n  return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
\n * @sample samples.collections.Collections.Aggregates.none\n *^/\npublic fun LongArray.none(): Boolean {\n
return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *^/\npublic fun FloatArray.none(): Boolean {\n  return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *^/\npublic fun DoubleArray.none(): Boolean {\n  return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *^/\npublic fun BooleanArray.none(): Boolean {\n  return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *^/\npublic fun CharArray.none(): Boolean {\n  return
isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*^/\npublic inline fun <T> Array<out T>.none(predicate: (T) -> Boolean): Boolean {\n  for (element in this) if
(predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if no elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n *^/\npublic inline fun
ByteArray.none(predicate: (Byte) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
false\n  return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *^/\npublic inline fun ShortArray.none(predicate:
(Short) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return false\n  return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *^/\npublic
inline fun IntArray.none(predicate: (Int) -> Boolean): Boolean {\n  for (element in this) if (predicate(element))
return false\n  return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *^/\npublic inline fun LongArray.none(predicate:
(Long) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return false\n  return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *^/\npublic inline fun FloatArray.none(predicate:
(Float) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return false\n  return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *^/\npublic inline fun DoubleArray.none(predicate:
(Double) -> Boolean):
Boolean {\n  for (element in this) if (predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if
no elements match the given [predicate].\n * \n * @sample

```

```

samples.collections.Collections.Aggregates.noneWithPredicate\n *^/npublic inline fun
BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {\n  for (element in this) if (predicate(element))
return false\n  return true\n}\n/n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *^/npublic inline fun CharArray.none(predicate:
(Char) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return false\n  return
true\n}\n/n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n
*^/n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.onEach(action: (T) ->
Unit): Array<out T> {\n  return apply { for (element in this)
action(element) }\n}\n/n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *^/n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEach(action:
(Byte) -> Unit): ByteArray {\n  return apply { for (element in this) action(element) }\n}\n/n/**\n * Performs the
given [action] on each element and returns the array itself afterwards.\n
*^/n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.onEach(action: (Short) ->
Unit): ShortArray {\n  return apply { for (element in this) action(element) }\n}\n/n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*^/n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.onEach(action: (Int) -> Unit):
IntArray {\n  return apply { for (element in this) action(element) }\n}\n/n/**\n * Performs the given [action] on
each element and returns the array itself afterwards.\n
*^/n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.onEach(action: (Long) -> Unit): LongArray {\n  return apply { for (element in this)
action(element) }\n}\n/n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *^/n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.onEach(action:
(Float) -> Unit): FloatArray {\n  return apply { for (element in this) action(element) }\n}\n/n/**\n * Performs the
given [action] on each element and returns the array itself afterwards.\n
*^/n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.onEach(action: (Double) ->
Unit): DoubleArray {\n  return apply { for (element in this) action(element) }\n}\n/n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*^/n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.onEach(action: (Boolean)
-> Unit): BooleanArray {\n
return apply { for (element in this) action(element) }\n}\n/n/**\n * Performs the given [action] on each element
and returns the array itself afterwards.\n *^/n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.onEach(action: (Char) -> Unit): CharArray {\n  return apply { for (element in this) action(element)
}\n}\n/n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and
returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element
itself\n * and performs the action on the element.\n *^/n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Array<out T>.onEachIndexed(action: (index: Int, T) -> Unit): Array<out T> {\n  return apply {
forEachIndexed(action) }\n}\n/n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function
that takes the index of an element and the element itself\n * and performs the action on the element.\n
*^/n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEachIndexed(action:
(index: Int, Byte) -> Unit): ByteArray {\n  return apply { forEachIndexed(action) }\n}\n/n/**\n * Performs the
given [action] on each element, providing sequential index with the element,\n * and returns the array itself
afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n *^/n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.onEachIndexed(action: (index: Int, Short) -> Unit): ShortArray {\n  return apply {
forEachIndexed(action) }\n}\n/n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the

```



```

(acc: Short, Short) -> Short): Short {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce

```

public inline fun IntArray.reduce(operation: (acc: Int, Int) -> Int): Int {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce

```

public inline fun LongArray.reduce(operation: (acc: Long, Long) -> Long): Long {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce

```

public inline fun FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce

```

public inline fun DoubleArray.reduce(operation: (acc: Double, Double) -> Double): Double {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce

```

public inline fun BooleanArray.reduce(operation: (acc: Boolean, Boolean) -> Boolean): Boolean {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce

```

*public inline fun CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {
    if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduce

```

*public inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {
    if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduce

```

*public inline fun ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {
    if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduce

```

*public inline fun ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {
    if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduce

```

*public inline fun IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {
    if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduce

```

*public inline fun LongArray.reduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): Long {
    if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in

```



1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator}\n\n/\*\*\n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceIndexedOrNull] instead. It returns

`null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.reduce\n \*\npublic inline fun FloatArray.reduceIndexed(operation:

(index: Int, acc: Float, Float) -> Float): Float {\n if (isEmpty())\n throw

UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return

accumulator}\n\n/\*\*\n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Throws an

exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceIndexedOrNull] instead. It returns

`null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.reduce\n \*\npublic inline fun DoubleArray.reduceIndexed(operation:

(index: Int, acc: Double, Double) -> Double): Double {\n if (isEmpty())\n throw

UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return

accumulator}\n\n/\*\*\n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Throws an

exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceIndexedOrNull] instead. It returns

`null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.reduce\n \*\npublic inline fun BooleanArray.reduceIndexed(operation:

(index: Int, acc: Boolean, Boolean) -> Boolean): Boolean {\n if (isEmpty())\n throw

UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return

accumulator}\n\n/\*\*\n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Throws an

exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceIndexedOrNull] instead.

It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.reduce\n \*\npublic inline fun CharArray.reduceIndexed(operation:

(index: Int, acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw

UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return

accumulator}\n\n/\*\*\n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns `null` if

the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and

the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.reduceOrNull\n \*\n@SinceKotlin("1.4")\npublic inline fun <S, T : S>

Array<out T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n if (isEmpty())\n return

```

null\n  var accumulator: S = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(index,
accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n*\n@SinceKotlin("1.4")\npublic
inline fun ByteArray.reduceIndexedOrNull(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte? {\n  if
(isEmpty())\n    return null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator =
operation(index, accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element
with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n*\n@SinceKotlin("1.4")\npublic inline fun ShortArray.reduceIndexedOrNull(operation: (index: Int, acc: Short,
Short) -> Short): Short? {\n  if (isEmpty())\n    return null\n  var accumulator
= this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from
left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns
`null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n*\n@SinceKotlin("1.4")\npublic inline fun IntArray.reduceIndexedOrNull(operation: (index: Int, acc: Int, Int) -> Int): Int? {\n  if (isEmpty())\n    return
null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(index,
accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element
with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n*\n@SinceKotlin("1.4")\npublic inline fun LongArray.reduceIndexedOrNull(operation: (index: Int, acc: Long,
Long) -> Long): Long? {\n  if (isEmpty())\n    return null\n  var accumulator = this[0]\n  for (index in
1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns
`null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n*\n@SinceKotlin("1.4")\npublic inline fun FloatArray.reduceIndexedOrNull(operation: (index: Int, acc: Float, Float) -> Float): Float? {\n  if (isEmpty())\n
return null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(index,
accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n*\n@SinceKotlin("1.4")\npublic inline fun DoubleArray.reduceIndexedOrNull(operation: (index: Int, acc:
Double, Double) -> Double): Double? {\n  if (isEmpty())\n    return null\n  var accumulator = this[0]\n  for
(index in 1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to

```

right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns `null` if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceOrNull\n \* \n \* @SinceKotlin("1.4")\n \* \n \* public inline fun BooleanArray.reduceIndexedOrNull(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean? {\n \* \n \* if (isEmpty())\n \* \n \* return null\n \* \n \* var accumulator = this[0]\n \* \n \* for (index in 1..lastIndex) {\n \* \n \* accumulator = operation(index, accumulator, this[index])\n \* \n \* }\n \* \n \* return accumulator\n \* \n \* }\n \* \n \* \n \* \n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns `null` if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceOrNull\n \* \n \* @SinceKotlin("1.4")\n \* \n \* public inline fun CharArray.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? {\n \* \n \* if (isEmpty())\n \* \n \* return null\n \* \n \* var accumulator = this[0]\n \* \n \* for (index in 1..lastIndex) {\n \* \n \* accumulator = operation(index, accumulator, this[index])\n \* \n \* }\n \* \n \* return accumulator\n \* \n \* }\n \* \n \* \n \* \n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element.\n \* \n \* Returns `null` if the array is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceOrNull\n \* \n \* @SinceKotlin("1.4")\n \* \n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* \n \* public inline fun <S, T : S> Array<out T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n \* \n \* if (isEmpty())\n \* \n \* return null\n \* \n \* var accumulator: S = this[0]\n \* \n \* for (index in 1..lastIndex) {\n \* \n \* accumulator = operation(accumulator, this[index])\n \* \n \* }\n \* \n \* return accumulator\n \* \n \* }\n \* \n \* \n \* \n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element.\n \* \n \* Returns `null` if the array is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceOrNull\n \* \n \* @SinceKotlin("1.4")\n \* \n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* \n \* public inline fun ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte): Byte? {\n \* \n \* if (isEmpty())\n \* \n \* return null\n \* \n \* var accumulator = this[0]\n \* \n \* for (index in 1..lastIndex) {\n \* \n \* accumulator = operation(accumulator, this[index])\n \* \n \* }\n \* \n \* return accumulator\n \* \n \* }\n \* \n \* \n \* \n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element.\n \* \n \* Returns `null` if the array is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceOrNull\n \* \n \* @SinceKotlin("1.4")\n \* \n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* \n \* public inline fun ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short? {\n \* \n \* if (isEmpty())\n \* \n \* return null\n \* \n \* var accumulator = this[0]\n \* \n \* for (index in 1..lastIndex) {\n \* \n \* accumulator = operation(accumulator, this[index])\n \* \n \* }\n \* \n \* return accumulator\n \* \n \* }\n \* \n \* \n \* \n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element.\n \* \n \* Returns `null` if the array is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceOrNull\n \* \n \* @SinceKotlin("1.4")\n \* \n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* \n \* public inline fun IntArray.reduceOrNull(operation: (acc: Int, Int) -> Int): Int? {\n \* \n \* if (isEmpty())\n \* \n \* return null\n \* \n \* var accumulator = this[0]\n \* \n \* for (index in 1..lastIndex) {\n \* \n \* accumulator = operation(accumulator, this[index])\n \* \n \* }\n \* \n \* return accumulator\n \* \n \* }\n \* \n \* \n \* \n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element.\n \* \n \* Returns `null` if the array is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceOrNull\n \* \n \* @SinceKotlin("1.4")\n \* \n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* \n \* public inline fun

```

@sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
LongArray.reduceOrNull(operation: (acc: Long, Long) -> Long): Long? {\n if (isEmpty())\n return null\n
var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n
return accumulator\n}\n\n**\n * Accumulates value starting with the first element and applying [operation] from
left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
FloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is
empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {\n if (isEmpty())\n return
null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator,
this[index])\n }\n return accumulator\n}\n\n**\n * Accumulates value starting with the first element and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(accumulator, this[index])\n }\n return accumulator\n}\n\n**\n * Accumulates value starting with the
first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and
an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n if (isEmpty())\n return
null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator,
this[index])\n }\n return accumulator\n}\n\n**\n * Accumulates value starting with the last element and
applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\npublic inline fun <S, T : S> Array<out
T>.reduceRight(operation: (T, acc: S) -> S): S {\n var index = lastIndex\n if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator: S = get(index--)\n while
(index >= 0) {\n
accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n**\n * Accumulates
value starting with the last element and applying [operation] from right to left\n * to each element and current
accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected
way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param

```

[operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduceRight
public inline fun
ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

\* Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduceRight
public inline fun
ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

\* Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

@sample
samples.collections.Collections.Aggregates.reduceRight
public inline fun
IntArray.reduceRight(operation:
(Int, acc: Int) -> Int): Int {
    var index = lastIndex
    if (index < 0)
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

\* Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

\* Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

@sample
samples.collections.Collections.Aggregates.reduceRight
public inline fun
LongArray.reduceRight(operation:
(Long, acc: Long) -> Long): Long {
    var index = lastIndex
    if (index < 0)
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

\* Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

@sample
samples.collections.Collections.Aggregates.reduceRight
public inline fun
FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

\* Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

@sample
samples.collections.Collections.Aggregates.reduceRight
public inline fun
DoubleArray.reduceRight(operation:
(Double, acc: Double) -> Double): Double {
    var index = lastIndex
    if (index < 0)
        throw
        UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while

```

```

(index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n } \n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an\n * expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that\n * takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\n\npublic inline fun\n BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator =\n    get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return\n    accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to\n * left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its\n * receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates\n * the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\n\npublic\n inline fun CharArray.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n    var index = lastIndex\n    if\n    (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator =\n    get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return\n    accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to\n * left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an\n * exception if this array is empty. If the array can be empty in an expected way,\n * please use\n * [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]\n * function that takes the index of an element, the element itself and current accumulator value,\n * and calculates\n * the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\n\npublic\n inline fun <S, T : S> Array<out T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n    var index =\n    lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var\n    accumulator: S = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),\n        accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last\n * element and applying [operation] from right to left\n * to each element with its index in the original array and\n * current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an\n * expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]\n * function that takes the index of an\n * accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\n\npublic inline fun\n ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator =\n    get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]\n * from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use\n * [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]\n * function that takes the index of an\n * element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\n\npublic inline fun\n ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {\n    var index =\n    lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var\n    accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),

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accumulator)\n --index\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation]

function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \*\npublic inline fun IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver

is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \*\npublic inline fun

LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceRightIndexedOrNull] instead.

It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \*\npublic inline fun

FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please

use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \*\npublic inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the

array can be empty in an expected way,\n \* please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \*\npublic inline fun

BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {\n var

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index = lastIndex\n  if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n
var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n
* Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic
inline fun CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n  var index =
lastIndex\n  if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var
accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array
and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function
that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> Array<out T>.reduceRightIndexedOrNull(operation:
(index: Int, T, acc: S) -> S): S? {\n  var index = lastIndex\n  if (index < 0) return null\n  var accumulator: S =
get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun ByteArray.reduceRightIndexedOrNull(operation: (index: Int, Byte,
acc: Byte) -> Byte): Byte? {\n  var index = lastIndex\n  if (index < 0) return null\n  var accumulator = get(index-
-)\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from
right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns
`null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element
itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun ShortArray.reduceRightIndexedOrNull(operation: (index: Int, Short, acc: Short) -> Short): Short? {\n  var index =
lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
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and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun IntArray.reduceRightIndexedOrNull(operation:
(index: Int, Int, acc: Int) -> Int): Int? {\n  var index = lastIndex\n  if (index < 0) return null\n  var accumulator =
get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the
element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n

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samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\\n@SinceKotlin(\\\"1.4\\\")\\npublic inline fun
LongArray.reduceRightIndexedOrNull(operation: (index: Int, Long, acc: Long) -> Long): Long? {\\n  var index =
lastIndex\\n  if (index < 0) return null\\n  var
  accumulator = get(index--)\\n  while (index >= 0) {\\n    accumulator = operation(index, get(index),
accumulator)\\n    --index\\n  }\\n  return accumulator\\n}\\n\\n/**\\n * Accumulates value starting with the last
element and applying [operation] from right to left\\n * to each element with its index in the original array and
current accumulator value.\\n * \\n * Returns `null` if the array is empty.\\n * \\n * @param [operation] function that
takes the index of an element, the element itself and current accumulator value,\\n * and calculates the next
accumulator value.\\n * \\n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\\n@SinceKotlin(\\\"1.4\\\")\\npublic inline fun FloatArray.reduceRightIndexedOrNull(operation: (index: Int, Float,
acc: Float) -> Float): Float? {\\n  var index = lastIndex\\n  if (index < 0) return null\\n  var accumulator =
get(index--)\\n  while (index >= 0) {\\n    accumulator = operation(index, get(index), accumulator)\\n    --index\\n
  }\\n  return accumulator\\n}\\n\\n/**\\n * Accumulates value starting with the last element and applying [operation]
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Returns `null` if the array is empty.\\n * \\n * @param [operation] function that takes the index of an element, the
element itself and current accumulator value,\\n * and calculates the next accumulator value.\\n * \\n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\\n@SinceKotlin(\\\"1.4\\\")\\npublic inline fun
DoubleArray.reduceRightIndexedOrNull(operation: (index: Int, Double, acc: Double) -> Double): Double? {\\n  var
index = lastIndex\\n  if (index < 0) return null\\n  var accumulator = get(index--)\\n  while (index >= 0) {\\n
accumulator = operation(index, get(index), accumulator)\\n    --index\\n  }\\n  return accumulator\\n}\\n\\n/**\\n *
Accumulates value starting with the last element and applying [operation] from
right to left\\n * to each element with its index in the original array and current accumulator value.\\n * \\n *
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`null` if the array is empty.\\n * \\n * @param [operation] function that takes the index of an element, the element
itself and current accumulator value,\\n * and calculates the next accumulator value.\\n * \\n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\\n@SinceKotlin(\\\"1.4\\\")\\npublic inline fun
BooleanArray.reduceRightIndexedOrNull(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean? {\\n
var index = lastIndex\\n  if (index < 0) return null\\n  var accumulator = get(index--)\\n  while (index >= 0) {\\n
accumulator = operation(index, get(index), accumulator)\\n    --index\\n  }\\n  return accumulator\\n}\\n\\n/**\\n *
Accumulates value starting with the last element and applying [operation] from right to left\\n * to each element with
its index in the original array and current accumulator value.\\n * \\n * Returns
`null` if the array is empty.\\n * \\n * @param [operation] function that takes the index of an element, the element
itself and current accumulator value,\\n * and calculates the next accumulator value.\\n * \\n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\\n@SinceKotlin(\\\"1.4\\\")\\npublic inline fun
CharArray.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {\\n  var index =
lastIndex\\n  if (index < 0) return null\\n  var accumulator = get(index--)\\n  while (index >= 0) {\\n
accumulator = operation(index, get(index), accumulator)\\n    --index\\n  }\\n  return accumulator\\n}\\n\\n/**\\n *
Accumulates value starting with the last element and applying [operation] from right to left\\n * to each element and
current accumulator value.\\n * \\n * Returns `null` if the array is empty.\\n * \\n * @param [operation] function that
takes an element and current accumulator value,\\n * and calculates the next accumulator value.\\n
  * \\n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\\n@SinceKotlin(\\\"1.4\\\")\\n@WasExperimental(ExperimentalStdlibApi::class)\\npublic inline fun <S, T : S>
Array<out T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\\n  var index = lastIndex\\n  if (index < 0)
return null\\n  var accumulator: S = get(index--)\\n  while (index >= 0) {\\n    accumulator = operation(get(index--),
accumulator)\\n  }\\n  return accumulator\\n}\\n\\n/**\\n * Accumulates value starting with the last element and
applying [operation] from right to left\\n * to each element and current accumulator value.\\n * \\n * Returns `null`
if the array is empty.\\n * \\n * @param [operation] function that takes an element and current accumulator value,\\n *
and calculates the next accumulator value.\\n * \\n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ByteArray.reduceRightOrNull(operation:
(Byte, acc: Byte) -> Byte): Byte? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator =
get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ShortArray.reduceRightOrNull(operation: (Short, acc: Short) -> Short): Short? {\n    var index = lastIndex\n    if
(index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator
= operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with
the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n
* Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
IntArray.reduceRightOrNull(operation: (Int, acc: Int) -> Int): Int? {\n    var index = lastIndex\n    if (index < 0)
return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--),
accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and
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current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
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samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
LongArray.reduceRightOrNull(operation: (Long, acc: Long) -> Long): Long? {\n    var index = lastIndex\n    if
(index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator =
operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n
* Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
FloatArray.reduceRightOrNull(operation: (Float, acc: Float) -> Float): Float? {\n    var index = lastIndex\n    if
(index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator =
operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n
* Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
DoubleArray.reduceRightOrNull(operation:
(Double, acc: Double) -> Double): Double? {\n    var index = lastIndex\n    if (index < 0) return null\n    var
accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n
    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n
* \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {\n  var index =
lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while
(index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * Returns `null` if the array is empty.\n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharArray.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n  var index = lastIndex\n  if (index
< 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator =
operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n *
\n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\npublic inline fun <T, R>
Array<out T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for
(element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left
to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.runningFold(initial: R,
operation: (acc: R, Byte) -> R): List<R> {\n  if (isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n  var accumulator = initial\n  for (element in this) {\n    accumulator =
operation(accumulator, element)\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from
left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.runningFold(initial: R,
operation: (acc: R, Short) -> R): List<R> {\n  if (isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n  var accumulator = initial\n  for (element in this) {\n    accumulator =
operation(accumulator, element)\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.runningFold(initial: R,
operation: (acc: R, Int) -> R): List<R> {\n  if (isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(size +
1).apply { add(initial) }\n  var accumulator = initial\n  for (element in this) {\n    accumulator =

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operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n \* \n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <R> LongArray.runningFold(initial: R, operation: (acc: R, Long) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n \* \n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <R> FloatArray.runningFold(initial: R, operation: (acc: R, Float) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n \* \n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <R> DoubleArray.runningFold(initial: R, operation: (acc: R, Double) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n \* \n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <R> BooleanArray.runningFold(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n \* \n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <R> CharArray.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator =

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operation(accumulator, element)\n    result.add(accumulator)\n } \n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin("1.4")\npublic inline fun <T, R> Array<out T>.runningFoldIndexed(initial: R, operation:
(index: Int, acc: R, T) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size +
1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator =
operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element, its index in the original array and current accumulator value that starts with
[initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it
would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n    if (isEmpty())
return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n
for (index in indices) {\n        accumulator
= operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n *
Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n    if (isEmpty())
return listOf(initial)\n    val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator =
operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n *
Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.runningFoldIndexed(initial: R, operation: (index: Int,
acc: R, Int) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply {
add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index,
accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element,
its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n *

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and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n
if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator
= initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n
* @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n    if (isEmpty())
return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n
for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n    if
(isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator =
initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect
the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n    if
(isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator =
initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n
* \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n    if (isEmpty())

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return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  result.add(accumulator)\n }\n return result\n\n\n/**\n * Returns a list containing successive accumulation\n values generated by applying [operation] from left to right\n * to each element\n and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to\n [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and the element, and calculates the next\n accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>\nArray<out T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n  if (isEmpty()) return emptyList()\n  var\n accumulator: S = this[0]\n  val result = ArrayList<S>(size).apply { add(accumulator) }\n  for (index in 1 until\n size) {\n    accumulator = operation(accumulator, this[index])\n    result.add(accumulator)\n  }\n  return\n result\n }\n\n\n/**\n * Returns a list containing successive accumulation values generated by applying\n [operation] from left to right\n * to each element and current accumulator value that starts with the first element of\n this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates\n the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.runningReduce(operation:\n(acc: Byte, Byte) -> Byte): List<Byte> {\n  if (isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val\n result = ArrayList<Byte>(size).apply { add(accumulator) }\n  for (index in 1 until size) {\n    accumulator =\n operation(accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n }\n\n\n/**\n * Returns a list\n containing successive accumulation values generated by applying [operation] from left to right\n * to each element\n and current accumulator value that starts with the first element of this\n array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the\n next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.runningReduce(operation:\n(acc: Short, Short) -> Short): List<Short> {\n  if (isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val\n result = ArrayList<Short>(size).apply { add(accumulator) }\n  for (index in 1 until size) {\n    accumulator =\n operation(accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n }\n\n\n/**\n * Returns a list\n containing successive accumulation values generated by applying [operation] from left to right\n * to each element\n and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function\n that takes current accumulator value and an element, and calculates the next\n accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.runningReduce(operation: (acc:\nInt, Int) -> Int): List<Int> {\n  if (isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result =\n ArrayList<Int>(size).apply { add(accumulator) }\n  for (index in 1 until size) {\n    accumulator =\n operation(accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n }\n\n\n/**\n * Returns a list\n containing successive accumulation values generated by applying [operation] from left to right\n * to each element\n and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function\n that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningReduce\n\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic\n inline fun LongArray.runningReduce(operation: (acc: Long, Long) -> Long): List<Long> {\n  if (isEmpty())\n return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Long>(size).apply { add(accumulator)\n }\n  for (index in 1 until size) {\n    accumulator = operation(accumulator, this[index])\n  }\n  result.add(accumulator)\n }\n  return result\n }\n\n\n/**\n * Returns a list containing successive accumulation\n values generated by applying [operation] from left to right\n * to each element and current accumulator value that\n starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value\n and an element, and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.runningReduce(operation:
(acc: Float, Float) -> Float): List<Float> {\n  if (isEmpty())
  return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Float>(size).apply { add(accumulator)
}\n  for (index in 1 until size) {\n    accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.runningReduce(operation:
(acc: Double, Double) -> Double): List<Double> {\n  if (isEmpty()) return emptyList()\n  var accumulator =
this[0]\n  val result = ArrayList<Double>(size).apply { add(accumulator)
}\n  for (index in 1 until size) {\n    accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.runningReduce(operation:
(acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n  if (isEmpty()) return emptyList()\n  var accumulator =
this[0]\n  val result = ArrayList<Boolean>(size).apply { add(accumulator) }\n  for (index in 1 until size) {\n
accumulator = operation(accumulator, this[index])\n
  result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.runningReduce(operation:
(acc: Char, Char) -> Char): List<Char> {\n  if (isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val
result = ArrayList<Char>(size).apply { add(accumulator) }\n  for (index in 1 until size) {\n    accumulator =
operation(accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list
containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes the index of an element, current accumulator value\n * and the element itself, and
calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\npublic inline fun <S, T :
S> Array<out T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n  if (isEmpty()) return
emptyList()\n  var accumulator: S = this[0]\n  val result = ArrayList<S>(size).apply { add(accumulator) }\n  for
(index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n
  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n

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*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.runningReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {\n  if (isEmpty())
return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Byte>(size).apply { add(accumulator)
}\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n *
to each element, its index in the original array and current accumulator value that starts with the first element of this
array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and
the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.runningReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {\n  if
(isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Short>(size).apply {
add(accumulator) }\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing
successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in
the original array and current accumulator value that starts with the first element of this array.\n * \n * @param
[operation] function that takes the index of an element, current accumulator value\n * and the element itself, and
calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.runningReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {\n  if (isEmpty()) return
emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Int>(size).apply { add(accumulator) }\n  for
(index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.runningReduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): List<Long> {\n  if
(isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Long>(size).apply {
add(accumulator) }\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation]
from left to right\n * to each element, its index in the original array and current accumulator value that starts with
the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.runningReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {\n  if
(isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Float>(size).apply {
add(accumulator) }\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n
* to each element, its index in the original array and current accumulator value that starts with the first element of
this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n *

```

and the element itself, and calculates the next accumulator value.

```

samples.collections.Collections.Aggregates.runningReduce
*/@SinceKotlin("1.4")@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.runningReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): List<Double> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Double>(size).apply {
        add(accumulator)
    }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the first element of this array.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

samples.collections.Collections.Aggregates.runningReduce
*/@SinceKotlin("1.4")@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.runningReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): List<Boolean> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Boolean>(size).apply {
        add(accumulator)
    }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the first element of this array.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

samples.collections.Collections.Aggregates.runningReduce
*/@SinceKotlin("1.4")@kotlin.internal.InlineOnly\npublic inline fun
CharArray.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Char>(size).apply {
        add(accumulator)
    }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

```

samples.collections.Collections.Aggregates.scan
*/@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {
    return runningFold(initial, operation)
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

```

samples.collections.Collections.Aggregates.scan
*/@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.scan(initial: R, operation: (acc: R, Byte) -> R): List<R> {
    return runningFold(initial, operation)
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes current accumulator value and an element, and

```

calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c
inline fun <R> ShortArray.scan(initial: R, operation: (acc: R, Short) -> R): List<R> {\n  return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> IntArray.scan(initial: R, operation: (acc: R, Int) -> R): List<R> {\n  return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n *
to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> LongArray.scan(initial: R, operation: (acc: R, Long) -> R): List<R> {\n  return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n
* \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R> {\n  return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {\n  return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c
inline fun <R> BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n  return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would

```

affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R> Array<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n\n
```

```

*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^npubli
c inline fun <R> LongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n  return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan

```

```

*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^npubli
c inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n  return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan

```

```

*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^npubli
c
inline fun <R> DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n
return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan

```

```

*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^npubli
c
inline fun <R> BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n
return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan

```

```

*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^npubli
c inline fun <R> CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) ->
R): List<R> {\n  return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n *^@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n @DeprecatedSinceKotlin(warningSince = "1.5")\n public inline fun <T>
Array<out T>.sumBy(selector: (T) -> Int): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n *^@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n @DeprecatedSinceKotlin(warningSince = "1.5")\n public inline fun
ByteArray.sumBy(selector: (Byte) -> Int): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element

```

```

in the array.\n *^@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n @DeprecatedSinceKotlin(warningSince = "1.5")\n public inline fun

```



```

    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each
element in the array.
 */
@Deprecated("Use sumOf instead.")
ReplaceWith("this.sumOf(selector)")
@DeprecatedSinceKotlin(warningSince = "1.5")
public inline fun
FloatArray.sumByDouble(selector: (Float) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by
[selector] function applied to each element in the array.
 */
@Deprecated("Use sumOf instead.")
ReplaceWith("this.sumOf(selector)")
@DeprecatedSinceKotlin(warningSince = "1.5")
public inline fun
DoubleArray.sumByDouble(selector: (Double) -> Double): Double {
    var sum: Double = 0.0
    for (element in
this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by
[selector] function applied to each element
in the array.
 */
@Deprecated("Use sumOf instead.")
ReplaceWith("this.sumOf(selector)")
@DeprecatedSinceKotlin(warningSince = "1.5")
public inline fun
BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {
    var sum: Double = 0.0
    for (element
in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced
by [selector] function applied to each element in the array.
 */
@Deprecated("Use sumOf instead.")
ReplaceWith("this.sumOf(selector)")
@DeprecatedSinceKotlin(warningSince = "1.5")
public inline fun
CharArray.sumByDouble(selector: (Char) -> Double): Double {
    var sum: Double = 0.0
    for (element in this)
{
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by
[selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public
inline fun <T> Array<out T>.sumOf(selector: (T) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values
produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun
ByteArray.sumOf(selector: (Byte) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in
this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by
[selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public
inline fun ShortArray.sumOf(selector: (Short) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this)
{
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values
produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun
IntArray.sumOf(selector: (Int) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this)
{
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by
[selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public
inline fun LongArray.sumOf(selector: (Long) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in
this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced
by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun
FloatArray.sumOf(selector: (Float) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in
this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by

```

[selector] function applied to each element in the array.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic\ninline fun DoubleArray.sumOf(selector: (Double) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for\n    (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values\n    produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun\nBooleanArray.sumOf(selector: (Boolean) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for\n    (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values\n    produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic\ninline fun CharArray.sumOf(selector: (Char) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for\n    (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values\n    produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun <T>\nArray<out T>.sumOf(selector: (T) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum +=\n        selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n    applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic\ninline fun ByteArray.sumOf(selector: (Byte) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]\n    function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nShortArray.sumOf(selector: (Short) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum +=\n        selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n    applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic\ninline fun IntArray.sumOf(selector: (Int) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]\n    function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nLongArray.sumOf(selector: (Long) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum +=\n        selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n    applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic\ninline fun FloatArray.sumOf(selector: (Float) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]\n    function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
```



```

DoubleArray.sumOf(selector: (Double) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
/** Returns the sum of all values produced by [selector]
function applied to each element in the array.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfInt")
@kotlin.internal.InlineOnly
public
inline fun BooleanArray.sumOf(selector: (Boolean) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in
this) {
        sum += selector(element)
    }
    return sum
}
/** Returns the sum of all values produced by
[selector] function applied to each element in the array.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfInt")
@kotlin.internal.InlineOnly
public
inline fun
CharArray.sumOf(selector: (Char) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum +=
selector(element)
    }
    return sum
}
/** Returns the sum of all values produced by [selector] function
applied to each element in the array.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public
inline fun
<T> Array<out T>.sumOf(selector: (T) -> Long): Long {
    var sum: Long = 0.toLong()
    for
(element in this) {
        sum += selector(element)
    }
    return sum
}
/** Returns the sum of all values
produced by [selector] function applied to each element in the array.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public
inline fun
ByteArray.sumOf(selector: (Byte) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
/** Returns the sum of all values produced by [selector]
function applied to each element in the array.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public
inline fun
ShortArray.sumOf(selector: (Short) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in
this) {
        sum += selector(element)
    }
    return sum
}
/** Returns the sum of all values produced by
[selector] function applied to each element in the array.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public
inline fun
IntArray.sumOf(selector: (Int) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
/** Returns the sum of all values produced by [selector]
function applied to each element in the array.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public
inline fun
LongArray.sumOf(selector: (Long) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in
this) {
        sum += selector(element)
    }
    return sum
}
/** Returns the sum of all values produced by
[selector] function applied to each element in the array.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public
inline fun
FloatArray.sumOf(selector: (Float) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
/** Returns the sum of all values produced by [selector]
function applied to each element in the array.

*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public
inline fun
DoubleArray.sumOf(selector: (Double) -> Long): Long {
    var sum: Long = 0.toLong()
    for
(element in this) {
        sum += selector(element)
    }
    return sum
}
/** Returns the sum of all values
produced by [selector] function applied to each element in the array.

```

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.sumOf(selector: (Boolean) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic
inline fun CharArray.sumOf(selector: (Char) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> UInt): UInt {\n
var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.sumOf(selector: (Byte) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> UInt): UInt {\n    var
sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n
* Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.sumOf(selector: (Int) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> UInt): UInt {\n    var
sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n
* Returns the sum
of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> UInt): UInt {\n    var
sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n
* Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> UInt): UInt {\n
var sum: UInt = 0.toUInt()\n    for (element

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in this) {\n    sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> UInt): UInt
{\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline
fun CharArray.sumOf(selector: (Char) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n
        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> ULong):
ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.sumOf(selector: (Byte) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> ULong): ULong
{\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.sumOf(selector: (Int) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for (element
in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> ULong): ULong
{\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> ULong): ULong
{\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n

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sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> ULong):
ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> ULong):
ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector:
(Char) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null`
elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n * \npublic fun <T : Any>
Array<T?.>.requireNonNulls(): Array<T> {\n    for (element in this) {\n        if (element == null) {\n            throw
IllegalArgumentException("null element found in $this.")\n        }\n    }\n    @Suppress("UNCHECKED_CAST")\n    return this as Array<T>\n}\n\n/**\n * Splits the original array into pair
of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains
elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n * \npublic inline fun <T> Array<out
T>.partition(predicate: (T) -> Boolean): Pair<List<T>,
List<T>> {\n    val first = ArrayList<T>()\n    val second = ArrayList<T>()\n    for (element in this) {\n        if
(predicate(element)) {\n            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n
return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n * \npublic inline fun ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {\n    val
first = ArrayList<Byte>()\n    val second = ArrayList<Byte>()\n    for (element in this) {\n        if
(predicate(element)) {\n            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n
return Pair(first, second)\n}\n\n/**\n * Splits the original array into
pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list
contains elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n * \npublic inline fun
ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {\n    val first =
ArrayList<Short>()\n    val second = ArrayList<Short>()\n    for (element in this) {\n        if (predicate(element)) {\n
            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n * \npublic inline fun
IntArray.partition(predicate:
(Int) -> Boolean): Pair<List<Int>, List<Int>> {\n    val first = ArrayList<Int>()\n    val second = ArrayList<Int>()\n
for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n        } else {\n

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second.add(element)\n    }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of
lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains
elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun
LongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>, List<Long>> {\n    val first =
ArrayList<Long>()\n    val second = ArrayList<Long>()\n    for (element in this) {\n        if (predicate(element)) {\n
            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded
`true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun
FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {\n    val first =
ArrayList<Float>()\n    val second = ArrayList<Float>()\n    for (element in this) {\n        if (predicate(element)) {\n
            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic
inline fun DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {\n    val
first = ArrayList<Double>()\n    val second = ArrayList<Double>()\n    for (element in this) {\n        if
(predicate(element)) {\n            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n
return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n
*/\npublic inline fun BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>,
List<Boolean>> {\n    val first = ArrayList<Boolean>()\n    val second = ArrayList<Boolean>()\n    for (element in
this) {\n        if (predicate(element)) {\n            first.add(element)\n        } else {\n           
second.add(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair
of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains
elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun
CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {\n    val first =
ArrayList<Char>()\n    val second = ArrayList<Char>()\n    for (element in this) {\n        if (predicate(element)) {\n
            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first,
second)\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the
same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Array<out T>.zip(other: Array<out R>): List<Pair<T, R>> {\n    return zip(other) { t1,
t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with
the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ByteArray.zip(other: Array<out R>):
List<Pair<Byte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R>
ShortArray.zip(other: Array<out R>): List<Pair<Short, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other]
array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> IntArray.zip(other: Array<out R>):
List<Pair<Int, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the

```

elements of `this` array and the [other] array with the same index. The returned list has length of the shortest collection.

```

@sample samples.collections.Iterables.Operations.zipIterable
public infix fun <R>
LongArray.zip(other: Array<out R>): List<Pair<Long, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. The returned list has length of the shortest collection.

```

@sample
samples.collections.Iterables.Operations.zipIterable
public infix fun <R> FloatArray.zip(other: Array<out R>): List<Pair<Float, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. The returned list has length of the shortest collection.

```

@sample samples.collections.Iterables.Operations.zipIterable
public infix fun <R> DoubleArray.zip(other: Array<out R>): List<Pair<Double, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. The returned list has length of the shortest collection.

```

@sample samples.collections.Iterables.Operations.zipIterable
public infix fun <R> BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of pairs built from the elements of `this` array and the [other] array with the same index. The returned list has length of the shortest collection.

```

@sample samples.collections.Iterables.Operations.zipIterable
public infix fun <R> CharArray.zip(other: Array<out R>): List<Pair<Char, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

```

@sample samples.collections.Iterables.Operations.zipIterableWithTransform
public inline fun <T, R, V> Array<out T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

```

@sample samples.collections.Iterables.Operations.zipIterableWithTransform
public inline fun <R, V> ByteArray.zip(other: Array<out R>, transform: (a: Byte, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

```

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform
public inline fun <R, V> ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

```

@sample samples.collections.Iterables.Operations.zipIterableWithTransform
public inline fun <R, V> IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

```

@sample samples.collections.Iterables.Operations.zipIterableWithTransform
public inline fun <R, V> LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

with the same index\n \* using the provided [transform] function applied to each pair of elements.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample

```

samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V>
FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n}
return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic
inline fun <R, V>
DoubleArray.zip(other: Array<out R>, transform: (a: Double, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n}
return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic
inline fun <R, V> BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {\n    val
size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n
list.add(transform(this[i], other[i]))\n    }\n}
return list\n}\n\n/**\n * Returns a list of values built from the elements
of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V>
CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n}
return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and
[other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <T, R> Array<out T>.zip(other:
Iterable<R>): List<Pair<T, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R>
ByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R> ShortArray.zip(other: Iterable<R>):
List<Pair<Short, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R>
IntArray.zip(other: Iterable<R>): List<Pair<Int, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R> LongArray.zip(other: Iterable<R>):
List<Pair<Long, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R>
FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R> DoubleArray.zip(other:

```

```

Iterable<R>): List<Pair<Double, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
<R> BooleanArray.zip(other: Iterable<R>): List<Pair<Boolean, R>> {\n  return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n
* Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> CharArray.zip(other: Iterable<R>):
List<Pair<Char, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the
elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function
applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Array<out
T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n  val arraySize = size\n  val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n
if
(i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a list
of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
ByteArray.zip(other: Iterable<R>, transform: (a: Byte, b: R) -> V): List<V> {\n  val arraySize = size\n  val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n
if
(i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
ShortArray.zip(other: Iterable<R>, transform: (a: Short, b: R) -> V): List<V> {\n  val arraySize = size\n  val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n
if
(i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline
fun <R, V> IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {\n  val
arraySize = size\n  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n
for (element in other) {\n  if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
LongArray.zip(other: Iterable<R>, transform: (a: Long, b: R) -> V): List<V> {\n  val arraySize = size\n  val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n
if
(i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a
list of
values built from the elements of `this` array and the [other] collection with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
FloatArray.zip(other: Iterable<R>, transform: (a: Float, b: R) -> V): List<V> {\n  val arraySize = size\n  val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n

```



```

if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\npublic inline fun <R, V> DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {\n
val arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i =
0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n
return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with
the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list
has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\npublic inline fun <R, V>
BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> {\n    val arraySize = size\n    val
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n
for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n
return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with
the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list
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samples.collections.Iterables.Operations.zipIterableWithTransform\n
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CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n
if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a
list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\npublic
infix fun ByteArray.zip(other: ByteArray): List<Pair<Byte, Byte>> {\n    return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun ShortArray.zip(other: ShortArray):
List<Pair<Short, Short>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun
IntArray.zip(other: IntArray): List<Pair<Int, Int>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun LongArray.zip(other: LongArray):
List<Pair<Long, Long>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun
FloatArray.zip(other: FloatArray): List<Pair<Float, Float>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>> {\n    return zip(other) {
t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array
with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun BooleanArray.zip(other: BooleanArray):
List<Pair<Boolean, Boolean>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun

```

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CharArray.zip(other: CharArray): List<Pair<Char, Char>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of values built from the elements of `this` array and the [other]
array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The
returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V> ByteArray.zip(other:
ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list =
ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length
of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\npublic inline fun <V> ShortArray.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V> {\n  val
size = minOf(size,
other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n
}\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
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samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V> IntArray.zip(other:
IntArray, transform: (a: Int, b: Int) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list =
ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list
has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> V): List<V> {\n  val size = minOf(size,
other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n
}\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> V): List<V> {\n  val size = minOf(size,
other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n
}\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V> {\n  val size = minOf(size,
other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n
}\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\npublic inline fun <V> BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V):
List<V> {\n  val size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n
list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements
of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> {\n  val size = minOf(size,

```

```

other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Appends the string from all the elements separated using [separator]
and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-
negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the
[truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Array<out
T>.joinTo(buffer: A, separator: CharSequence = "\n", prefix: CharSequence = "\n", postfix: CharSequence = "\n",
limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n  var count = 0\n  for (element in this) {\n    if (++count > 1) buffer.append(separator)\n
    if (limit < 0 || count <= limit) {\n      buffer.appendElement(element, transform)\n    } else break\n  }\n  if
(limit >= 0 && count > limit) buffer.append(truncated)\n  buffer.append(postfix)\n  return buffer\n}\n\n/**\n *
Appends the
string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n
* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
[limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable>
ByteArray.joinTo(buffer: A, separator: CharSequence = "\n", prefix: CharSequence = "\n", postfix: CharSequence =
"\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((Byte) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n  var count = 0\n  for (element in this) {\n    if (++count > 1) buffer.append(separator)\n
    if (limit < 0 || count <= limit) {\n      if (transform != null)\n        buffer.append(transform(element))\n
    else\n      buffer.append(element.toString())\n    } else break\n  }\n  if (limit >= 0 && count > limit) buffer.append(truncated)\n
buffer.append(postfix)\n  return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A :
Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = "\n", prefix: CharSequence = "\n", postfix:
CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((Short) -> CharSequence)? =
null): A {\n  buffer.append(prefix)\n  var count = 0\n  for (element in this) {\n    if (++count > 1)
buffer.append(separator)\n    if (limit < 0 || count <= limit) {\n      if (transform != null)\n        buffer.append(transform(element))\n
    else\n      buffer.append(element.toString())\n    } else break\n  }\n  if (limit >= 0 && count > limit)
buffer.append(truncated)\n  buffer.append(postfix)\n  return buffer\n}\n\n/**\n * Appends the string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will
be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> IntArray.joinTo(buffer:
A, separator: CharSequence = "\n", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1,
truncated: CharSequence = "...", transform: ((Int) -> CharSequence)? = null): A {\n  buffer.append(prefix)\n
var count = 0\n  for (element in this) {\n    if (++count > 1) buffer.append(separator)\n    if (limit < 0 || count
<= limit) {\n      if (transform != null)\n        buffer.append(transform(element))\n
    else\n      buffer.append(element.toString())\n    } else break\n  }\n  if (limit >= 0 && count > limit)
buffer.append(truncated)\n  buffer.append(postfix)\n  return buffer\n}\n\n/**\n * Appends the string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will
be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable>
LongArray.joinTo(buffer: A, separator: CharSequence = "\n", prefix: CharSequence = "\n",

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postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Long) ->
CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

Appendable * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.
Int * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which
defaults to "...").
@sample samples.collections.Collections.Transformations.joinTo

public fun <A : Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = "\", \"\", prefix:
CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform:
((Float) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else
            break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

Appendable * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.
Int * If the collection could be huge, you can specify a non-negative value of
[limit], in which case
only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
@sample samples.collections.Collections.Transformations.joinTo

public fun <A : Appendable>
DoubleArray.joinTo(buffer: A, separator: CharSequence = "\", \"\", prefix: CharSequence = "\", postfix:
CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Double) -> CharSequence)? =
null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

Appendable * Appends the string from all the elements separated using [separator]
and using the given [prefix] and [postfix] if supplied.
Int * If the collection could be huge, you can specify a non-
negative value of [limit], in which case only the first [limit] elements will be appended, followed by the
[truncated] string (which defaults to "...").
@sample
samples.collections.Collections.Transformations.joinTo

public fun <A : Appendable>
BooleanArray.joinTo(buffer: A, separator: CharSequence = "\", \"\", prefix: CharSequence = "\", postfix:
CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Boolean) -> CharSequence)? =
null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count >
        limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

Appendable * Appends the string from
all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
Int * If the
collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]
elements will be appended, followed by the [truncated] string (which defaults to "...").
@sample
samples.collections.Collections.Transformations.joinTo

public fun <A : Appendable>
CharArray.joinTo(buffer: A, separator: CharSequence = "\", \"\", prefix: CharSequence = "\", postfix: CharSequence =
\"", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Char) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1) buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element)
        } else break
    }
    if (limit >= 0 && count > limit)
        buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}

Appendable * Creates a string from all the

```



CharSequence = "...", transform: ((Double) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/\*\*\n \* Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n \* \n \* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n \* elements will be appended,

followed by the [truncated] string (which defaults to "...").\n \* \n \* @sample samples.collections.Collections.Transformations.joinToString\n \* \n \* public fun

BooleanArray.joinToString(separator: CharSequence = ",", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Boolean) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/\*\*\n \* Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n \* \n \* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n \* elements will be appended, followed by the [truncated] string (which defaults to "...").\n \* \n \* @sample samples.collections.Collections.Transformations.joinToString\n \* \n \* public fun CharArray.joinToString(separator: CharSequence =

", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Char) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/\*\*\n \* Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n \* \n \* public fun <T> Array<out T>.asIterable(): Iterable<T> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/\*\*\n \* Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n \* \n \* public fun ByteArray.asIterable(): Iterable<Byte> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/\*\*\n \* Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n \* \n \* public fun ShortArray.asIterable(): Iterable<Short> {\n if (isEmpty()) return

emptyList()\n return Iterable { this.iterator() }\n}\n\n/\*\*\n \* Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n \* \n \* public fun IntArray.asIterable(): Iterable<Int> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/\*\*\n \* Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n \* \n \* public fun LongArray.asIterable(): Iterable<Long> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/\*\*\n \* Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n \* \n \* public fun FloatArray.asIterable(): Iterable<Float> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/\*\*\n \* Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n \* \n \* public fun DoubleArray.asIterable(): Iterable<Double>

{\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/\*\*\n \* Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n \* \n \* public fun BooleanArray.asIterable(): Iterable<Boolean> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/\*\*\n \* Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n \* \n \* public fun CharArray.asIterable(): Iterable<Char> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/\*\*\n \* Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n \* \n \* @sample samples.collections.Sequences.Building.sequenceFromArray\n \* \n \* public fun <T> Array<out T>.asSequence(): Sequence<T> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/\*\*\n \* Creates a [Sequence] instance that wraps

the original array returning its elements when being iterated.\n \* \n \* @sample samples.collections.Sequences.Building.sequenceFromArray\n \* \n \* public fun ByteArray.asSequence(): Sequence<Byte> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/\*\*\n \* Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n \* \n \* @sample samples.collections.Sequences.Building.sequenceFromArray\n \* \n \* public fun ShortArray.asSequence(): Sequence<Short> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/\*\*\n \*

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Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n *^\npublic fun IntArray.asSequence():
Sequence<Int> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps
the original array returning its elements when being iterated.\n * \n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n *^\npublic fun LongArray.asSequence():
Sequence<Long> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n *^\npublic fun FloatArray.asSequence():
Sequence<Float> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n *^\npublic fun DoubleArray.asSequence():
Sequence<Double> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that
wraps the original array returning its elements when being iterated.\n * \n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n *^\npublic fun BooleanArray.asSequence():
Sequence<Boolean> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n *^\npublic fun CharArray.asSequence():
Sequence<Char> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Returns an average value of elements in the array.\n *^\n@kotlin.jvm.JvmName("averageOfByte")\npublic fun
Array<out Byte>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n *
Returns an average
value of elements in the array.\n *^\n@kotlin.jvm.JvmName("averageOfShort")\npublic fun Array<out
Short>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum +=
element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an
average value of elements in the array.\n *^\n@kotlin.jvm.JvmName("averageOfInt")\npublic fun Array<out
Int>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum +=
element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an
average value of elements in the array.\n *^\n@kotlin.jvm.JvmName("averageOfLong")\npublic fun Array<out
Long>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum +=
element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an
average value of elements in the array.\n *^\n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun
Array<out Float>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n *
Returns an average value of elements in the array.\n *^\n@kotlin.jvm.JvmName("averageOfDouble")\npublic fun
Array<out Double>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this)
{\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n *
Returns an average value of elements in the array.\n *^\npublic fun ByteArray.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the array.\n *^\npublic fun ShortArray.average(): Double {\n var sum: Double =
0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count
== 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n *^\npublic
fun IntArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the array.\n *^\npublic fun LongArray.average(): Double {\n var sum: Double =

```

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0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n        ++count\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun FloatArray.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n        ++count\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun DoubleArray.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n        ++count\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun Array<out Byte>.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun Array<out Short>.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun Array<out Int>.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun Array<out Long>.sum(): Long {\n    var sum: Long = 0L\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun Array<out Float>.sum(): Float {\n    var sum: Float = 0.0f\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun Array<out Double>.sum(): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ByteArray.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ShortArray.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun IntArray.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun LongArray.sum(): Long {\n    var sum: Long = 0L\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun FloatArray.sum(): Float {\n    var sum: Float = 0.0f\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun DoubleArray.sum(): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n}\n\n"/>\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("RangesKt")\n\npackage kotlin.ranges\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns the first element.\n */\n@throws NoSuchElementException if the progression is empty.\n\n@SinceKotlin("1.7")\npublic fun IntProgression.first(): Int {\n    if (isEmpty())\n        throw NoSuchElementException("Progression $this is empty.")\n    return this.first\n}\n\n/**\n * Returns the first element.\n */\n@throws NoSuchElementException\nif the progression is empty.\n\n@SinceKotlin("1.7")\npublic fun LongProgression.first(): Long {\n    if (isEmpty())\n        throw NoSuchElementException("Progression $this is empty.")\n    return this.first\n}\n\n/**\n * Returns the first element.\n */\n@throws NoSuchElementException if the progression is empty.\n\n@SinceKotlin("1.7")\npublic fun CharProgression.first(): Char {\n    if (isEmpty())\n        throw NoSuchElementException("Progression $this is empty.")\n    return this.first\n}\n\n/**\n * Returns the first element, or `null` if the progression is empty.\n */\n@SinceKotlin("1.7")\npublic fun IntProgression.firstOrNull():

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Int? { \n  return if (isEmpty()) null else this.first\n}\n\n/**\n * Returns the first element, or `null` if the progression
is empty.\n */\n@SinceKotlin("1.7")\npublic fun LongProgression.firstOrNull(): Long? { \n  return if (isEmpty())
null else this.first\n}\n\n/**\n * Returns the first element, or `null` if the progression
is empty.\n */\n@SinceKotlin("1.7")\npublic fun CharProgression.firstOrNull(): Char? { \n  return if (isEmpty())
null else this.first\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the
progression is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*/\n@SinceKotlin("1.7")\npublic fun IntProgression.last(): Int { \n  if (isEmpty())\n    throw
NoSuchElementException("Progression $this is empty.")\n  return this.last\n}\n\n/**\n * Returns the last
element.\n * \n * @throws NoSuchElementException if the progression is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*/\n@SinceKotlin("1.7")\npublic fun LongProgression.last(): Long
{ \n  if (isEmpty())\n    throw NoSuchElementException("Progression $this is empty.")\n  return
this.last\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the progression is
empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*/\n@SinceKotlin("1.7")\npublic fun CharProgression.last(): Char { \n  if (isEmpty())\n    throw
NoSuchElementException("Progression $this is empty.")\n  return this.last\n}\n\n/**\n * Returns the last element,
or `null` if the progression is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*/\n@SinceKotlin("1.7")\npublic fun IntProgression.lastOrNull(): Int? { \n  return if (isEmpty()) null else
this.last\n}\n\n/**\n * Returns the last element, or `null` if the progression is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*/\n@SinceKotlin("1.7")\npublic fun
LongProgression.lastOrNull(): Long? { \n  return if (isEmpty()) null else this.last\n}\n\n/**\n * Returns the last
element, or `null` if the progression is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*/\n@SinceKotlin("1.7")\npublic fun CharProgression.lastOrNull(): Char? { \n  return if (isEmpty()) null else
this.last\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.random(): Int { \n  return
random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws
IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun LongRange.random(): Long { \n  return random(Random)\n}\n\n/**\n * Returns a random element from
this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun CharRange.random(): Char { \n  return
random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of
randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.3")\npublic fun IntRange.random(random: Random): Int
{ \n  try { \n    return random.nextInt(this)\n  } catch (e: IllegalArgumentException) { \n    throw
NoSuchElementException(e.message)\n  }\n}\n\n/**\n * Returns a random element from this range using the
specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.3")\npublic fun LongRange.random(random: Random): Long { \n  try { \n    return
random.nextLong(this)\n  } catch (e: IllegalArgumentException) { \n    throw
NoSuchElementException(e.message)\n  }\n}\n\n/**\n * Returns a random element from this range using the
specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.3")\npublic fun CharRange.random(random: Random): Char { \n  try { \n    return
random.nextInt(first.code, last.code + 1).toChar()\n  } catch (e: IllegalArgumentException) { \n    throw
NoSuchElementException(e.message)\n  }\n}\n\n/**\n * Returns a random element
from this range, or `null` if this range is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun IntRange.randomOrNull(): Int? { \n  return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this range, or `null` if this range is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic

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c inline fun LongRange.randomOrNull(): Long? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this range, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
c inline fun CharRange.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this range using the specified source of randomness, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
fun IntRange.randomOrNull(random: Random): Int? {\n    if (isEmpty())\n        return null\n    return
random.nextInt(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of
randomness, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
LongRange.randomOrNull(random: Random): Long? {\n    if (isEmpty())\n        return null\n    return
random.nextLong(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of
randomness, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
CharRange.randomOrNull(random: Random): Char? {\n    if (isEmpty())\n        return null\n    return
random.nextInt(first.code, last.code + 1).toChar()\n}\n\n/**\n * Returns `true` if this range contains the specified
[element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline operator fun IntRange.contains(element: Int?): Boolean {\n    return element != null &&
contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns
`false` if the [element] is `null`.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator
fun LongRange.contains(element: Long?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n *
Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is
`null`.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun
CharRange.contains(element: Char?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("intRangeContains")\npublic
operator fun ClosedRange<Int>.contains(value: Byte): Boolean {\n
    return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun ClosedRange<Long>.contains(value:
Byte): Boolean {\n    return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this
range.\n
*\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun
ClosedRange<Short>.contains(value: Byte): Boolean {\n    return contains(value.toShort())\n}\n\n/**\n * Checks if
the specified [value] belongs to this range.\n
*\n@Deprecated("This `contains` operation mixing integer and
floating point arguments has ambiguous semantics and is going to be
removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince =
"1.5")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun
ClosedRange<Double>.contains(value: Byte): Boolean {\n    return contains(value.toDouble())\n}\n\n/**\n *
Checks if the specified [value]
belongs to this range.\n
*\n@Deprecated("This `contains` operation mixing integer and floating point arguments
has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3",
errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun
ClosedRange<Float>.contains(value: Byte): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n * Checks if
the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("intRangeContains")\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdlib
Api::class)\npublic operator fun OpenEndRange<Int>.contains(value: Byte): Boolean {\n    return
contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("longRangeContains")\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStd
libApi::class)\npublic operator fun OpenEndRange<Long>.contains(value: Byte): Boolean {\n    return

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and is going to be removed.}")@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value: Float): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun ClosedRange<Double>.contains(value: Float): Boolean {\n return contains(value.toDouble())\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@kotlin.jvm.JvmName("doubleRangeContains")\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic operator fun OpenEndRange<Double>.contains(value: Float): Boolean {\n return contains(value.toDouble())\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun ClosedRange<Long>.contains(value: Int): Boolean {\n return contains(value.toLong())\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value: Int): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value: Int): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun ClosedRange<Double>.contains(value: Int): Boolean {\n return contains(value.toDouble())\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value: Int): Boolean {\n return contains(value.toFloat())\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@kotlin.jvm.JvmName("longRangeContains")\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic operator fun OpenEndRange<Long>.contains(value: Int): Boolean {\n return contains(value.toLong())\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@kotlin.jvm.JvmName("byteRangeContains")\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic operator fun OpenEndRange<Byte>.contains(value: Int): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@kotlin.jvm.JvmName("shortRangeContains")\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic operator fun OpenEndRange<Short>.contains(value: Int): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@kotlin.internal.InlineOnly\npublic inline operator fun LongRange.contains(value: Int): Boolean {\n return (this as ClosedRange<Long>).contains(value)\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value: Long): Boolean {\n return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value: Long): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value: Long): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \*/\n\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics

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and is going to be removed.\n)\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince
= \"1.5\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun
ClosedRange<Double>.contains(value: Long): Boolean {\n    return contains(value.toDouble())\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer
and floating point
arguments has ambiguous semantics and is going to be removed.\n)\n@DeprecatedSinceKotlin(warningSince =
\"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic
operator fun ClosedRange<Float>.contains(value: Long): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n
* Checks if the specified [value] belongs to this range.\n
*/\n@kotlin.jvm.JvmName(\"intRangeContains\")\n@SinceKotlin(\"1.9\")\n@WasExperimental(ExperimentalStdli
bApi::class)\npublic operator fun OpenEndRange<Int>.contains(value: Long): Boolean {\n    return
value.toIntExactOrNull().let { if (it != null) contains(it) else false } }\n\n/**\n * Checks if the specified [value]
belongs to this range.\n
*/\n@kotlin.jvm.JvmName(\"byteRangeContains\")\n@SinceKotlin(\"1.9\")\n@WasExperimental(ExperimentalStdli
bApi::class)\npublic operator fun OpenEndRange<Byte>.contains(value: Long): Boolean {\n    return
value.toByteExactOrNull().let { if (it != null) contains(it) else
false } }\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@kotlin.jvm.JvmName(\"shortRangeContains\")\n@SinceKotlin(\"1.9\")\n@WasExperimental(ExperimentalStd
libApi::class)\npublic operator fun OpenEndRange<Short>.contains(value: Long): Boolean {\n    return
value.toShortExactOrNull().let { if (it != null) contains(it) else false } }\n\n/**\n * Checks if the specified [value]
belongs to this range.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun IntRange.contains(value: Long):
Boolean {\n    return (this as ClosedRange<Int>).contains(value)\n}\n\n/**\n * Checks if the specified [value]
belongs to this range.\n
*/\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun
ClosedRange<Int>.contains(value: Short): Boolean {\n    return contains(value.toInt())\n}\n\n/**\n * Checks if the
specified [value] belongs to this range.\n
*/\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun
ClosedRange<Long>.contains(value: Short): Boolean
{\n    return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value:
Short): Boolean {\n    return value.toByteExactOrNull().let { if (it != null) contains(it) else false } }\n\n/**\n
* Checks if the specified [value] belongs to this range.\n
*/\n@Deprecated(\"This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.\n)\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince =
\"1.5\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun
ClosedRange<Double>.contains(value: Short): Boolean {\n    return contains(value.toDouble())\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n
*/\n@Deprecated(\"This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.\n)\n@DeprecatedSinceKotlin(warningSince
= \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic
operator fun ClosedRange<Float>.contains(value: Short): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n
* Checks if the specified [value] belongs to this range.\n
*/\n@kotlin.jvm.JvmName(\"intRangeContains\")\n@SinceKotlin(\"1.9\")\n@WasExperimental(ExperimentalStdli
bApi::class)\npublic operator fun OpenEndRange<Int>.contains(value: Short): Boolean {\n    return
contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@kotlin.jvm.JvmName(\"longRangeContains\")\n@SinceKotlin(\"1.9\")\n@WasExperimental(ExperimentalStd
libApi::class)\npublic operator fun OpenEndRange<Long>.contains(value: Short): Boolean {\n    return
contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@kotlin.jvm.JvmName(\"byteRangeContains\")\n@SinceKotlin(\"1.9\")\n@WasExperimental(ExperimentalStdli
bApi::class)\npublic

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operator fun OpenEndRange<Byte>.contains(value: Short): Boolean {\n    return value.toByteExactOrNull().let { if
(it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntRange.contains(value: Short): Boolean {\n    return
(this as ClosedRange<Int>).contains(value)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongRange.contains(value: Short): Boolean {\n    return
(this as ClosedRange<Long>).contains(value)\n}\n\n/**\n * Returns a progression from this value down to the
specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to]
value is greater than `this` value the returned progression is empty.\n *\n*\npublic infix fun Int.downTo(to: Byte):
IntProgression {\n    return IntProgression.fromClosedRange(this,
to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -
1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this`
value the returned progression is empty.\n *\n*\npublic infix fun Long.downTo(to: Byte): LongProgression {\n    return
LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value
down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this`
value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\n*\npublic infix fun
Byte.downTo(to: Byte): IntProgression {\n    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -
1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The
[to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the
returned progression is empty.\n *\n*\npublic infix fun Short.downTo(to: Byte): IntProgression {\n    return
IntProgression.fromClosedRange(this.toInt(), to.toInt(), -
1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The
[to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the
returned progression is empty.\n *\n*\npublic infix fun Char.downTo(to: Char): CharProgression {\n    return
CharProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the
specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to]
value is greater than `this` value the returned progression is empty.\n *\n*\npublic infix fun Int.downTo(to: Int):
IntProgression {\n    return IntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns
a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less
than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*\n*\npublic infix fun Long.downTo(to: Int): LongProgression {\n    return LongProgression.fromClosedRange(this,
to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -
1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this`
value the returned progression is empty.\n *\n*\npublic infix fun Byte.downTo(to: Int): IntProgression {\n    return
IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression from this value down to the
specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to]
value is greater than `this` value the returned progression
is empty.\n *\n*\npublic infix fun Short.downTo(to: Int): IntProgression {\n    return
IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression from this value down to the
specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to]
value is greater than `this` value the returned progression is empty.\n *\n*\npublic infix fun Int.downTo(to: Long):
LongProgression {\n    return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a
progression from this value down to the specified [to] value
with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater
than `this` value the returned progression is empty.\n *\n*\npublic infix fun Long.downTo(to: Long): LongProgression {\n
return LongProgression.fromClosedRange(this,
to, -1L)\n}\n\n/**\n * Returns a progression from this value
down to the specified [to] value
with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater
than `this` value the returned progression is empty.\n *\n*\npublic infix fun Byte.downTo(to: Long): LongProgression
{\n    return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from

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this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Short.downTo(to: Long): LongProgression {\n return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Int.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Long.downTo(to: Short): LongProgression {\n return LongProgression.fromClosedRange(this.toLong(), to.toInt(), -1L)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Byte.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Short.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range in the opposite direction with the same step.\n \*/\npublic fun IntProgression.reversed(): IntProgression {\n return IntProgression.fromClosedRange(last, first, -step)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range in the opposite direction with the same step.\n \*/\npublic fun LongProgression.reversed(): LongProgression {\n return LongProgression.fromClosedRange(last, first, -step)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range in the opposite direction with the same step.\n \*/\npublic fun CharProgression.reversed(): CharProgression {\n return CharProgression.fromClosedRange(last, first, -step)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range with the given step.\n \*/\npublic infix fun IntProgression.step(step: Int): IntProgression {\n checkStepIsPositive(step > 0, step)\n return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range with the given step.\n \*/\npublic infix fun LongProgression.step(step: Long): LongProgression {\n checkStepIsPositive(step > 0, step)\n return LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range with the given step.\n \*/\npublic infix fun CharProgression.step(step: Int): CharProgression {\n checkStepIsPositive(step > 0, step)\n return CharProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\ninternal fun Int.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN\_VALUE.toInt()..Byte.MAX\_VALUE.toInt()) this.toByte()\n else null\n}\n\ninternal fun Long.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN\_VALUE.toLong()..Byte.MAX\_VALUE.toLong()) this.toByte() else null\n}\n\ninternal fun Short.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN\_VALUE.toShort()..Byte.MAX\_VALUE.toShort()) this.toByte() else null\n}\n\ninternal fun Double.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN\_VALUE.toDouble()..Byte.MAX\_VALUE.toDouble()) this.toInt().toByte() else null\n}\n\ninternal fun Float.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN\_VALUE.toFloat()..Byte.MAX\_VALUE.toFloat()) this.toInt().toByte() else null\n}\n\ninternal fun Long.toIntExactOrNull(): Int? {\n return if (this in Int.MIN\_VALUE.toLong()..Int.MAX\_VALUE.toLong()) this.toInt() else null\n}\n\ninternal fun Double.toIntExactOrNull(): Int? {\n return if (this in Int.MIN\_VALUE.toDouble()..Int.MAX\_VALUE.toDouble()) this.toInt() else null\n}\n\ninternal fun Float.toIntExactOrNull(): Int? {\n

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return if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat()) this.toInt() else null\n}\n\ninternal fun
Double.toLongExactOrNull(): Long? {\n    return if (this in
Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null\n}\n\ninternal fun
Float.toLongExactOrNull(): Long? {\n    return if (this in
Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null\n}\n\ninternal fun
Int.toShortExactOrNull(): Short? {\n    return if (this in Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt())
this.toShort() else null\n}\n\ninternal fun Long.toShortExactOrNull(): Short? {\n    return if (this in
Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null\n}\n\ninternal fun
Double.toShortExactOrNull(): Short? {\n    return if (this in
Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toInt().toShort() else null\n}\n\ninternal fun
Float.toShortExactOrNull(): Short? {\n    return if (this in
Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat())
this.toInt().toShort() else null\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic
infix fun Int.until(to: Byte): IntRange {\n    return this .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from
this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value,
then the returned range is empty.\n */\npublic infix fun Long.until(to: Byte): LongRange {\n    return this ..
(to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic
infix fun Byte.until(to: Byte): IntRange {\n    return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range
from this value up to but excluding
the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is
empty.\n */\npublic infix fun Short.until(to: Byte): IntRange {\n    return this.toInt() .. (to.toInt() -
1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
[to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Char.until(to:
Char): CharRange {\n    if (to <= '\u0000') return CharRange.EMPTY\n    return this .. (to - 1).toChar()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or
equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Int): IntRange {\n    if (to
<= Int.MIN_VALUE) return IntRange.EMPTY\n    return this .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from
this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic
infix fun Long.until(to: Int): LongRange {\n    return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range
from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this`
value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Int): IntRange {\n    if (to <=
Int.MIN_VALUE) return IntRange.EMPTY\n    return this.toInt() .. (to - 1).toInt()\n}\n\n/**\n * Returns a range
from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this`
value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Int): IntRange {\n    if (to <=
Int.MIN_VALUE) return IntRange.EMPTY\n    return this.toInt() .. (to - 1).toInt()\n}\n\n/**\n * Returns a range
from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this`
value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Long): LongRange {\n    if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n    return
this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic
infix fun Long.until(to: Long): LongRange {\n    if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n    return
this .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic
infix fun Byte.until(to: Long): LongRange {\n    if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n    return
this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding

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the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Short.until(to: Long): LongRange {\n if (to <= Long.MIN\_VALUE) return LongRange.EMPTY\n return this.toLong() .. (to - 1).toLong()\n}\n\n/\*\*\n \* Returns a range from this value up to but excluding the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Int.until(to: Short): IntRange {\n return this .. (to.toInt() - 1).toInt()\n}\n\n/\*\*\n \* Returns a range from this value up to but excluding the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Long.until(to: Short): LongRange {\n return this .. (to.toLong() - 1).toLong()\n}\n\n/\*\*\n \* Returns a range from this value up to but excluding the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Byte.until(to: Short): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/\*\*\n \* Returns a range from this value up to but excluding the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Short.until(to: Short): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/\*\*\n \* Ensures that this value is not less than the specified [minimumValue].\n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeastComparable\n \*/\npublic fun <T : Comparable<T>> T.coerceAtLeast(minimumValue: T): T {\n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\*\n \* Ensures that this value is not less than the specified [minimumValue].\n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast\n \*/\npublic fun Byte.coerceAtLeast(minimumValue: Byte): Byte {\n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\*\n \* Ensures that this value is not less than the specified [minimumValue].\n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast\n \*/\npublic fun Short.coerceAtLeast(minimumValue: Short): Short {\n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\*\n \* Ensures that this value is not less than the specified [minimumValue].\n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast\n \*/\npublic fun Int.coerceAtLeast(minimumValue: Int): Int {\n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\*\n \* Ensures that this value is not less than the specified [minimumValue].\n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast\n \*/\npublic fun Long.coerceAtLeast(minimumValue: Long): Long {\n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\*\n \* Ensures that this value is not less than the specified [minimumValue].\n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast\n \*/\npublic fun Float.coerceAtLeast(minimumValue: Float): Float {\n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\*\n \* Ensures that this value is not less than the specified [minimumValue].\n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast\n \*/\npublic fun Double.coerceAtLeast(minimumValue: Double): Double {\n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\*\n \* Ensures that this value is not greater than the specified [maximumValue].\n \* \n \* @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtMostComparable\n \*/\npublic fun <T : Comparable<T>> T.coerceAtMost(maximumValue: T): T {\n return if (this > maximumValue) maximumValue else this\n}\n\n/\*\*\n \* Ensures that this value is not greater than the specified [maximumValue].\n \* \n \* @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtMost\n \*/\npublic fun Byte.coerceAtMost(maximumValue: Byte): Byte {\n return if (this > maximumValue) maximumValue

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else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return
this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Short.coerceAtMost(maximumValue: Short):
Short {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Int.coerceAtMost(maximumValue: Int): Int
{\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater
than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or
the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Long.coerceAtMost(maximumValue: Long):
Long {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Float.coerceAtMost(maximumValue: Float):
Float {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Double.coerceAtMost(maximumValue:
Double): Double {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this
value lies in the specified
range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this
value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n *
@sample samples.comparisons.ComparableOps.coerceInComparable\n *\npublic fun <T : Comparable<T>>
T.coerceIn(minimumValue: T?, maximumValue: T?): T {\n    if (minimumValue !== null && maximumValue !==
null) {\n        if (minimumValue > maximumValue) throw IllegalArgumentException("\n        Cannot coerce value to an
empty range: maximum $maximumValue is less than minimum $minimumValue.\n    }\n    if (this <
minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    }\n    else {\n    if
(minimumValue !== null && this < minimumValue) return minimumValue\n    if (maximumValue !== null
&& this > maximumValue) return maximumValue\n    }\n    return this\n}\n\n/**\n * Ensures that this value lies in
the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Byte.coerceIn(minimumValue: Byte,
maximumValue: Byte): Byte {\n    if (minimumValue > maximumValue) throw
IllegalArgumentException("\n    Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\n    }\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Short.coerceIn(minimumValue:
Short, maximumValue: Short): Short {\n    if (minimumValue > maximumValue) throw
IllegalArgumentException("\n    Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\n    }\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Int.coerceIn(minimumValue: Int, maximumValue:

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Int): Int {
    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an
empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue)
return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 *
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
 * [maximumValue] if this value is greater than [maximumValue].
 */
@sample
samples.comparisons.ComparableOps.coerceIn

public fun Long.coerceIn(minimumValue: Long,
maximumValue: Long): Long {
    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue)
return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range
 * [minimumValue]..[maximumValue].
 *
 * @return this value if it's in the range, or [minimumValue] if this value
 * is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 */
@sample
samples.comparisons.ComparableOps.coerceIn

public fun Float.coerceIn(minimumValue:
Float, maximumValue: Float): Float {
    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue)
return maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified range
 * [minimumValue]..[maximumValue].
 *
 * @return this value if it's in the range, or [minimumValue] if this value
 * is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 */
@sample
samples.comparisons.ComparableOps.coerceIn

public fun Double.coerceIn(minimumValue: Double,
maximumValue: Double): Double {
    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum
$minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return
maximumValue
    return this
}

/**
 * Ensures that this value lies in the specified [range].
 *
 * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this
value is greater than `range.endInclusive`.
 */
@sample
samples.comparisons.ComparableOps.coerceInFloatingPointRange

@SinceKotlin("1.1")
public fun <T :
Comparable<T>> T.coerceIn(range: ClosedFloatingPointRange<T>): T {
    if (range.isEmpty()) throw
IllegalArgumentException("Cannot coerce value to an empty range: $range.")
    return when {
        // this <
start equiv to this <= start && !(this >= start)
        range.lessThanOrEqualTo(this, range.start) &&
!range.lessThanOrEqualTo(range.start, this) -> range.start
        // this > end equiv to this >= end && !(this <= end)
        range.lessThanOrEqualTo(range.endInclusive,
this) && !range.lessThanOrEqualTo(this, range.endInclusive) -> range.endInclusive
    }
}

/**
 * Ensures that this value lies in the specified [range].
 *
 * @return this value if it's in the [range],
 * or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than
`range.endInclusive`.
 */
@sample
samples.comparisons.ComparableOps.coerceInComparable

public fun
<T : Comparable<T>> T.coerceIn(range: ClosedRange<T>): T {
    if (range is ClosedFloatingPointRange) {
return this.coerceIn<T>(range)
    }
    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce
value to an empty range: $range.")
    return when {
        this < range.start -> range.start
        this >
range.endInclusive -> range.endInclusive
        else -> this
    }
}

/**
 * Ensures that this value lies in the
 * specified [range].
 *
 * @return this value if it's in the [range], or `range.start`
 * if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.
 */
@sample
samples.comparisons.ComparableOps.coerceIn

public fun Int.coerceIn(range: ClosedRange<Int>):
Int {
    if (range is ClosedFloatingPointRange) {
return this.coerceIn<Int>(range)
    }
    if
(range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")
    return
when {
        this < range.start -> range.start
        this > range.endInclusive -> range.endInclusive
        else ->
}
}

```



```

this.toUInt().times(other.toUInt())\n  /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n  public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())\n  /** Multiplies this
value by the other value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun times(other: UInt): UInt =
this.toUInt().times(other)\n  /** Multiplies this value by the other value. */\n  @kotlin.internal.InlineOnly\n
public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\n\n  /** Divides this value by
the other value, truncating the result to an integer that is closer to zero. */\n  @kotlin.internal.InlineOnly\n  public
inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\n  /** Divides this value by the other
value, truncating the result to an integer that is closer to zero. */\n  @kotlin.internal.InlineOnly\n  public inline
operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n  /** Divides this value by the other
value, truncating the result to an integer that is closer to zero. */\n  @kotlin.internal.InlineOnly\n  public inline
operator fun div(other: UInt): UInt =
this.toUInt().div(other)\n  /** Divides this value by the other value, truncating the result to an integer that is closer
to zero. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n  /**\n   * Calculates the remainder of truncating division of this value (dividend) by
the other value (divisor).\n   * The result is always less than the divisor.\n   */\n  @kotlin.internal.InlineOnly\n  public inline operator fun rem(other: UByte): UInt =
this.toUInt().rem(other.toUInt())\n  /**\n   * Calculates the remainder of truncating division of this value
(dividend) by the other value (divisor).\n   * The result is always less than the divisor.\n   */\n  @kotlin.internal.InlineOnly\n  public inline operator fun rem(other: UShort): UInt =
this.toUInt().rem(other.toUInt())\n  /**\n   * Calculates the remainder of truncating division of this value
(dividend) by the other value (divisor).\n
   *\n   * The result is always less than the divisor.\n   */\n  @kotlin.internal.InlineOnly\n  public inline
operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n  /**\n   * Calculates the remainder of truncating
division of this value (dividend) by the other value (divisor).\n   *\n   * The result is always less than the divisor.\n
   */\n  @kotlin.internal.InlineOnly\n  public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)\n\n  /**\n   * Divides this value by the other value, flooring the result to an integer that
is closer to negative infinity.\n   *\n   * For unsigned types, the results of flooring division and truncating division
are the same.\n   */\n  @kotlin.internal.InlineOnly\n  public inline fun floorDiv(other: UByte): UInt =
this.toUInt().floorDiv(other.toUInt())\n  /**\n   * Divides this value by the other value, flooring the result to an
integer that is closer to negative infinity.\n   *\n   * For unsigned types, the results of flooring division and truncating
division are the same.\n   */\n  @kotlin.internal.InlineOnly\n  public inline fun floorDiv(other: UShort): UInt =
this.toUInt().floorDiv(other.toUInt())\n  /**\n   * Divides this value by the other value, flooring the result to an
integer that is closer to negative infinity.\n   *\n   * For unsigned types, the results of flooring division and truncating
division are the same.\n   */\n  @kotlin.internal.InlineOnly\n  public inline fun floorDiv(other: UInt):
UInt = this.toUInt().floorDiv(other)\n  /**\n   * Divides this value by the other value, flooring the result to an
integer that is closer to negative infinity.\n   *\n   * For unsigned types, the results of flooring division and truncating
division are the same.\n   */\n  @kotlin.internal.InlineOnly\n  public inline fun floorDiv(other:
ULong): ULong = this.toULong().floorDiv(other)\n\n  /**\n   * Calculates the remainder
of flooring division of this value (dividend) by the other value (divisor).\n   *\n   * The result is always less than
the divisor.\n   *\n   * For unsigned types, the remainders of flooring division and truncating division are the
same.\n   */\n  @kotlin.internal.InlineOnly\n  public inline fun mod(other: UByte): UByte =
this.toUInt().mod(other.toUInt()).toUByte()\n  /**\n   * Calculates the remainder of flooring division of this value
(dividend) by the other value (divisor).\n   *\n   * The result is always less than the divisor.\n   *\n   * For
unsigned types, the remainders of flooring division and truncating division are the same.\n   */\n  @kotlin.internal.InlineOnly\n  public inline fun mod(other: UShort): UShort =
this.toUInt().mod(other.toUInt()).toUShort()\n  /**\n   * Calculates the remainder of flooring division of this

```

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value (dividend) by the other value (divisor).\n * The result is always less than the divisor.\n *
* For unsigned types, the remainders of flooring division and truncating division are the same.\n *
@kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt = this.toUInt().mod(other)\n /**
 * Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n * The
result is always less than the divisor.\n * For unsigned types, the remainders of flooring division and
truncating division are the same.\n *
@kotlin.internal.InlineOnly\n public inline fun mod(other: ULong):
ULong = this.toULong().mod(other)\n /**
 * Returns this value incremented by one.\n *
@sample
samples.misc.Builtins.inc\n *
@kotlin.internal.InlineOnly\n public inline operator fun inc(): UByte =
UByte(data.inc())\n /**
 * Returns this value decremented by one.\n *
@sample
samples.misc.Builtins.dec\n *
@kotlin.internal.InlineOnly\n public inline
operator fun dec(): UByte = UByte(data.dec())\n /** Creates a range from this value to the specified [other]
value.
@kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UByte): UIntRange =
UIntRange(this.toUInt(), other.toUInt())\n /**
 * Creates a range from this value up to but excluding the
specified [other] value.\n * If the [other] value is less than or equal to `this` value, then the returned range is
empty.\n *
@SinceKotlin("1.9")\n @WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\n public inline operator fun rangeUntil(other: UByte): UIntRange = this.toUInt() until
other.toUInt()\n /** Performs a bitwise AND operation between the two values.
@kotlin.internal.InlineOnly\n public inline infix fun and(other: UByte): UByte = UByte(this.data and other.data)\n
/** Performs a bitwise OR operation between the two values.
@kotlin.internal.InlineOnly\n
public inline infix fun or(other: UByte): UByte = UByte(this.data or other.data)\n /** Performs a bitwise XOR
operation between the two values.
@kotlin.internal.InlineOnly\n public inline infix fun xor(other: UByte):
UByte = UByte(this.data xor other.data)\n /** Inverts the bits in this value.
@kotlin.internal.InlineOnly\n
public inline fun inv(): UByte = UByte(data.inv())\n /**
 * Converts this [UByte] value to [Byte].\n *
 * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same
numerical value as this `UByte`. Otherwise the result is negative.\n * The resulting `Byte` value has the
same binary representation as this `UByte` value.\n *
@kotlin.internal.InlineOnly\n public inline fun
toByte(): Byte = data\n /**
 * Converts this [UByte] value to [Short].\n * The resulting `Short` value
represents the same numerical value as this `UByte`.\n
*\n * The least significant 8 bits of the resulting `Short` value are the same as the bits of this `UByte` value,\n
 * whereas the most significant 8 bits are filled with zeros.\n *
@kotlin.internal.InlineOnly\n public inline
fun toShort(): Short = data.toShort() and 0xFF\n /**
 * Converts this [UByte] value to [Int].\n * The
resulting `Int` value represents the same numerical value as this `UByte`.\n * The least significant 8 bits of
the resulting `Int` value are the same as the bits of this `UByte` value,\n * whereas the most significant 24 bits are
filled with zeros.\n *
@kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data.toInt() and 0xFF\n
/**
 * Converts this [UByte] value to [Long].\n * The resulting `Long` value represents the same
numerical value as this `UByte`.\n * The least significant 8 bits of the resulting `Long` value are the same
as the bits of this
`UByte` value,\n * whereas the most significant 56 bits are filled with zeros.\n *
@kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and 0xFF\n\n /** Returns this
value.
@kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = this\n /**
 * Converts this
[UByte] value to [UShort].\n * The resulting `UShort` value represents the same numerical value as this
`UByte`.\n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this
`UByte` value,\n * whereas the most significant 8 bits are filled with zeros.\n *
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = UShort(data.toShort() and 0xFF)\n /**
 * Converts this [UByte] value to [UInt].\n * The resulting `UInt` value represents the same numerical value
as this `UByte`.\n * The least significant 8 bits of the resulting `UInt` value are
the same as the bits of this `UByte` value,\n * whereas the most significant 24 bits are filled with zeros.\n *
@kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFF)\n /**

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Converts this [UByte] value to [ULong].\n    *\n    * The resulting `ULong` value represents the same numerical
value as this `UByte`.\n    *\n    * The least significant 8 bits of the resulting `ULong` value are the same as the bits
of this `UByte` value,\n    * whereas the most significant 56 bits are filled with zeros.\n    */\n
@kotlin.internal.InlineOnly\n    public inline fun toULong(): ULong = ULong(data.toLong() and 0xFF)\n\n    /**\n    * Converts this [UByte] value to [Float].\n    *\n    * The resulting `Float` value represents the same numerical
value as this `UByte`.\n    */\n    @kotlin.internal.InlineOnly\n    public inline fun toFloat(): Float =
this.toInt().toFloat()\n    /**\n    * Converts this [UByte] value to [Double].\n    *\n    * The resulting `Double` value represents the same numerical value as this `UByte`.\n    */\n
@kotlin.internal.InlineOnly\n    public inline fun toDouble(): Double = this.toInt().toDouble()\n\n    public override
fun toString(): String = toInt().toString()\n\n    /**\n    * Converts this [Byte] value to [UByte].\n    *\n    * If this value
is positive, the resulting `UByte` value represents the same numerical value as this `Byte`.\n    *\n    * The resulting
`UByte` value has the same binary representation as this `Byte` value.\n
*/\n\n    @SinceKotlin("1.5")\n    @WasExperimental(ExperimentalUnsignedTypes::class)\n    @kotlin.internal.InlineOnly\n
public inline fun Byte.toUByte(): UByte = UByte(this)\n\n    /**\n    * Converts this [Short] value to [UByte].\n    *\n    * If
this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n    *
the same numerical value as this `Short`.\n    *\n    * The resulting `UByte` value is represented by the least significant 8
bits of this `Short` value.\n
*/\n\n    @SinceKotlin("1.5")\n    @WasExperimental(ExperimentalUnsignedTypes::class)\n    @kotlin.internal.InlineOnly\n
public inline fun Short.toUByte(): UByte = UByte(this.toByte())\n\n    /**\n    * Converts this [Int] value to [UByte].\n
*\n    * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value
represents\n    * the same numerical value as this `Int`.\n    *\n    * The resulting `UByte` value is represented by the least
significant 8 bits of this `Int` value.\n
*/\n\n    @SinceKotlin("1.5")\n    @WasExperimental(ExperimentalUnsignedTypes::class)\n    @kotlin.internal.InlineOnly\n
public inline fun Int.toUByte(): UByte = UByte(this.toByte())\n\n    /**\n    * Converts this [Long] value to [UByte].\n
*\n    * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value
represents\n    * the same numerical value as this `Long`.\n    *\n    * The resulting `UByte` value is represented by the
least significant 8 bits of this `Long` value.\n
*/\n\n    @SinceKotlin("1.5")\n    @WasExperimental(ExperimentalUnsignedTypes::class)\n    @kotlin.internal.InlineOnly\n
public inline fun Long.toUByte(): UByte = UByte(this.toByte())\n\n    /*\n    * Copyright 2010-2023 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n    * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n    */\n\n    // Auto-generated file. DO NOT EDIT!\n\n    package
kotlin\n\n    import kotlin.experimental.*\n\n    import
kotlin.jvm.*\n\n    @SinceKotlin("1.5")\n    @WasExperimental(ExperimentalUnsignedTypes::class)\n    @JvmInline\n    pu
blic value class UInt @kotlin.internal.IntrinsicConstEvaluation @PublishedApi internal constructor(@PublishedApi
internal val data: Int) : Comparable<UInt> {\n\n        companion object {\n\n            /**\n            * A constant holding the
minimum value an instance of UInt can have.\n            */\n            public const val MIN_VALUE: UInt = UInt(0)\n\n            /**\n            * A constant holding the maximum value
an instance of UInt can have.\n            */\n            public const val MAX_VALUE: UInt = UInt(-1)\n\n            /**\n            *
The number of bytes used to represent an instance of UInt in a binary form.\n            */\n            public const val
SIZE_BYTES: Int = 4\n\n            /**\n            * The number of bits used to represent an instance of UInt in a binary
form.\n            */\n            public const val SIZE_BITS: Int = 32\n        }\n\n        /**\n        * Compares this value with the
specified value for order.\n        * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n        * or a positive number if it's greater than other.\n        */\n        @kotlin.internal.InlineOnly\n
public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toUInt())\n\n        /**\n        * Compares
this value with the specified value for order.\n        * Returns zero if this value is equal to the specified other value, a
negative number if it's less than other,\n        * or a positive number if it's greater than other.\n        */\n        @kotlin.internal.InlineOnly\n
public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())\n\n        /**\n        * Compares this value with the

```

```

specified value for order.\n    * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n    * or a positive number if it's greater than other.\n    *^n @kotlin.internal.InlineOnly\n
@Override\n public override inline operator fun compareTo(other: UInt): Int =
uintCompare(this.data, other.data)\n\n /**\n    * Compares this value with the specified value for order.\n    *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n    * or a
positive number if it's greater than other.\n    *^n @kotlin.internal.InlineOnly\n public inline operator fun
compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n
/** Adds the other value to this value. *^n @kotlin.internal.InlineOnly\n public inline operator fun plus(other:
UByte): UInt = this.plus(other.toUInt())\n /** Adds the other value to this value. *^n
@kotlin.internal.InlineOnly\n public inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())\n
/** Adds the other value to this value. *^n @kotlin.internal.InlineOnly\n public inline operator fun plus(other:
UInt): UInt = UInt(this.data.plus(other.data))\n /** Adds the other value to this value. *^n
@kotlin.internal.InlineOnly\n public inline operator fun plus(other: ULong): ULong =
this.toULong().plus(other)\n\n /** Subtracts the other value from this value. *^n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())\n /** Subtracts the other value
from this value. *^n @kotlin.internal.InlineOnly\n public inline operator fun minus(other:
UShort): UInt = this.minus(other.toUInt())\n /** Subtracts the other value from this value. *^n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt =
UInt(this.data.minus(other.data))\n /** Subtracts the other value from this value. *^n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: ULong): ULong =
this.toULong().minus(other)\n\n /** Multiplies this value by the other value. *^n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())\n /** Multiplies this value by the
other value. *^n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt =
this.times(other.toUInt())\n /** Multiplies this value by the other value. *^n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))\n /** Multiplies this value
by the other value. *^n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value
by the other value, truncating the result to an integer that is closer to zero. *^n @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UByte): UInt = this.div(other.toUInt())\n /** Divides this value by the other
value, truncating the result to an integer that is closer to zero. *^n @kotlin.internal.InlineOnly\n public inline
operator fun div(other: UShort): UInt = this.div(other.toUInt())\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. *^n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UInt): UInt = uintDivide(this, other)\n /** Divides this value by the other value, truncating the result
to an integer that is closer to zero. *^n @kotlin.internal.InlineOnly\n public inline operator fun div(other:
ULong): ULong = this.toULong().div(other)\n\n /**\n    * Calculates the remainder of truncating division of this value (dividend) by the other value (divisor).\n
*\n    * The result is always less than the divisor.\n    *^n @kotlin.internal.InlineOnly\n public inline operator
fun rem(other: UByte): UInt = this.rem(other.toUInt())\n /**\n    * Calculates the remainder of truncating division
of this value (dividend) by the other value (divisor).\n    *\n    * The result is always less than the divisor.\n    *^n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt = this.rem(other.toUInt())\n
/**\n    * Calculates the remainder of truncating division of this value (dividend) by the other value (divisor).\n
*\n    * The result is always less than the divisor.\n    *^n @kotlin.internal.InlineOnly\n public inline operator
fun rem(other: UInt): UInt = uintRemainder(this, other)\n /**\n    * Calculates the remainder of truncating
division of this value (dividend) by the other value (divisor).\n    *\n    * The result is always less than the
divisor.\n    *^n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)\n\n /**\n    * Divides this value by the other value, flooring the result to an integer that
is closer to negative infinity.\n    *\n    * For unsigned types, the results of flooring division and truncating division
are the same.\n    *^n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UByte): UInt =

```



```

this.floorDiv(other.toUInt())\n /**\n * Divides this value by the other value, flooring the result to an integer that
is closer to negative infinity.\n *\n * For unsigned types, the results of flooring division and truncating division
are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UShort): UInt =
this.floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n *\n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UInt): UInt = div(other)\n /**\n * Divides this value by the other value,
flooring the result to an integer that is closer to negative infinity.\n *\n * For unsigned types, the results of
flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun
floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the remainder of
flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is always less than the
divisor.\n *\n * For unsigned types, the remainders of flooring division and truncating division are the same.\n
*/\n @kotlin.internal.InlineOnly\n
public inline fun mod(other: UByte): UByte = this.mod(other.toUInt()).toUByte()\n /**\n * Calculates the
remainder of flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is always
less than the divisor.\n *\n * For unsigned types, the remainders of flooring division and truncating division are
the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UShort): UShort =
this.mod(other.toUInt()).toUShort()\n /**\n * Calculates the remainder of flooring division of this value
(dividend) by the other value (divisor).\n *\n * The result is always less than the divisor.\n *\n * For
unsigned types, the remainders of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt = rem(other)\n /**\n * Calculates the
remainder of flooring division of this value (dividend) by the other
value (divisor).\n *\n * The result is always less than the divisor.\n *\n * For unsigned types, the
remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun mod(other: ULong): ULong = this.toULong().mod(other)\n\n /**\n * Returns this value
incremented by one.\n *\n * @sample samples.misc.Builtins.inc\n */\n @kotlin.internal.InlineOnly\n
public inline operator fun inc(): UInt = UInt(data.inc())\n\n /**\n * Returns this value decremented by one.\n
*\n * @sample samples.misc.Builtins.dec\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
dec(): UInt = UInt(data.dec())\n\n /**\n * Creates a range from this value to the specified [other] value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UInt): UIntRange = UIntRange(this,
other)\n\n /**\n * Creates a range from this value up to but excluding
the specified [other] value.\n *\n * If the [other] value is less than or equal to `this` value, then the returned
range is empty.\n */\n @SinceKotlin("1.9")\n @WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\n public inline operator fun rangeUntil(other: UInt): UIntRange = this until other\n\n
/**\n * Shifts this value left by the [bitCount] number of bits.\n *\n * Note that only the five lowest-order
bits of the [bitCount] are used as the shift distance.\n *\n * The shift distance actually used is therefore always in the
range `0..31`.\n */\n @kotlin.internal.InlineOnly\n public inline infix fun shl(bitCount: Int): UInt = UInt(data
shl bitCount)\n\n /**\n * Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with
zeros.\n *\n * Note that only the five lowest-order bits of the [bitCount] are used as the shift distance.\n
*\n * The shift distance actually used
is therefore always in the range `0..31`.\n */\n @kotlin.internal.InlineOnly\n public inline infix fun
shr(bitCount: Int): UInt = UInt(data ushr bitCount)\n\n /**\n * Performs a bitwise AND operation between the two
values. */\n @kotlin.internal.InlineOnly\n public inline infix fun and(other: UInt): UInt = UInt(this.data and
other.data)\n\n /**\n * Performs a bitwise OR operation between the two values. */\n @kotlin.internal.InlineOnly\n
public inline infix fun or(other: UInt): UInt = UInt(this.data or other.data)\n\n /**\n * Performs a bitwise XOR operation
between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: UInt): UInt =
UInt(this.data xor other.data)\n\n /**\n * Inverts the bits in this value. */\n @kotlin.internal.InlineOnly\n public
inline fun inv(): UInt = UInt(data.inv())\n\n /**\n * Converts this [UInt] value to [Byte].\n *\n * If this

```

value is less than or equals to [Byte.MAX\_VALUE], the resulting `Byte` value represents the same numerical value as this `UInt`. Note that the resulting `Byte` value may be negative.

```
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte()
/**
 * Converts this [UInt] value to [Short].
 * If this value is less than or equals to [Short.MAX_VALUE], the
 * resulting `Short` value represents the same numerical value as this `UInt`.
 * The resulting `Short` value is represented by the least significant 16 bits of this `UInt` value.
 * Note that the resulting `Short` value may be negative.
 */
@kotlin.internal.InlineOnly
public inline fun toShort(): Short = data.toShort()
/**
 * Converts this [UInt] value to [Int].
 * If this value is less than or equals to [Int.MAX_VALUE],
 * the resulting `Int` value represents
 * the same numerical value as this `UInt`. Otherwise the result is negative.
 * The resulting `Int` value has the same binary representation as this `UInt` value.
 */
@kotlin.internal.InlineOnly
public inline fun toInt(): Int = data
/**
 * Converts this [UInt] value to [Long].
 * The resulting `Long` value represents the same numerical value as this `UInt`.
 * The least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt` value,
 * whereas the most significant 32 bits are filled with zeros.
 */
@kotlin.internal.InlineOnly
public inline fun toLong(): Long = data.toLong() and 0xFFFF_FFFF
/**
 * Converts this [UInt] value to [UByte].
 * If this value is less than or equals to
 * [UByte.MAX_VALUE], the resulting `UByte` value represents
 * the same numerical value as this `UInt`.
 * The resulting `UByte` value is represented
 * by the least significant 8 bits of this `UInt` value.
 */
@kotlin.internal.InlineOnly
public inline fun toUByte(): UByte = data.toUByte()
/**
 * Converts this [UInt] value to [UShort].
 * If this value is
 * less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents
 * the same numerical value as this `UInt`.
 * The resulting `UShort` value is represented by the least significant 16 bits of this
 * `UInt` value.
 */
@kotlin.internal.InlineOnly
public inline fun toUShort(): UShort = data.toUShort()
/** Returns this value. */
@kotlin.internal.InlineOnly
public inline fun toUInt(): UInt = this
/**
 * Converts this [UInt] value to [ULong].
 * The resulting `ULong` value represents the same numerical
 * value as this `UInt`.
 * The least significant 32 bits of the resulting `ULong` value are the same as the bits
 * of this `UInt` value,
 * whereas the
 * most significant 32 bits are filled with zeros.
 */
@kotlin.internal.InlineOnly
public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF)
/**
 * Converts this [UInt] value to
 * [Float].
 * The resulting value is the closest `Float` to this `UInt` value.
 * In case when this `UInt`
 * value is exactly between two `Float`s,
 * the one with zero at least significant bit of mantissa is selected.
 */
@kotlin.internal.InlineOnly
public inline fun toFloat(): Float = this.toDouble().toFloat()
/**
 * Converts
 * this [UInt] value to [Double].
 * The resulting `Double` value represents the same numerical value as this
 * `UInt`.
 */
@kotlin.internal.InlineOnly
public inline fun toDouble(): Double = UIntToDouble(data)
public override fun toString(): String = toLong().toString()
/**
 * Converts this [Byte] value to [UInt].
 * If this value is positive, the resulting `UInt`
 * value represents the same numerical value as this `Byte`.
 * The least significant 8 bits of the resulting `UInt`
 * value are the same as the bits of this `Byte` value,
 * whereas the most significant 24 bits are filled with the sign bit
 * of this value.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Byte.toUInt(): UInt = UInt(this.toInt())
/**
 * Converts this [Short] value to [UInt].
 * If
 * this value is positive, the resulting `UInt` value represents the same numerical value as this `Short`.
 * The least
 * significant 16 bits of the resulting `UInt` value are the same as the bits of this `Short` value,
 * whereas the most
 * significant 16 bits are filled with the sign bit of this value.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Short.toUInt(): UInt = UInt(this.toInt())
/**
 * Converts this [Int] value

```

```

to [UInt].\n *\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this
`Int`.\n *\n * The resulting `UInt` value has the same binary representation as this `Int` value.\n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Int.toUInt(): UInt = UInt(this)\n /**\n * Converts this [Long] value to [UInt].\n *\n * If this value
is positive and less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\n * the same
numerical value as this `Long`.\n *\n * The resulting `UInt` value is represented by the least significant 32 bits of
this `Long` value.\n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Long.toUInt(): UInt = UInt(this.toInt())\n /**\n * Converts this [Float] value to [UInt].\n *\n *
The fractional part, if any, is rounded down towards zero.\n * Returns zero if this
`Float` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Float.toUInt(): UInt = doubleToUInt(this.toDouble())\n /**\n * Converts this [Double] value to
[UInt].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is
negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Double.toUInt(): UInt = doubleToUInt(this)\n", "/*\n * Copyright 2010-2023 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\nimport kotlin.experimental.*\nimport
kotlin.jvm.*\n\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @JvmInline\npu
blic
value class UShort @kotlin.internal.IntrinsicConstEvaluation @PublishedApi internal constructor(@PublishedApi
internal val data: Short) : Comparable<UShort> {\n\n    companion object {\n        /**\n         * A constant holding
the minimum value an instance of UShort can have.\n         */\n        public const val MIN_VALUE: UShort =
UShort(0)\n\n        /**\n         * A constant holding the maximum value an instance of UShort can have.\n         */\n
        public const val MAX_VALUE: UShort = UShort(-1)\n\n        /**\n         * The number of bytes used to represent
an instance of UShort in a binary form.\n         */\n        public const val SIZE_BYTES: Int = 2\n\n        /**\n
         * The number of bits used to represent an instance of UShort in a binary form.\n         */\n        public const val
SIZE_BITS: Int = 16\n    }\n\n    /**\n     * Compares this value with the specified
value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less
than other,\n     * or a positive number if it's greater than other.\n     */\n     @kotlin.internal.InlineOnly\n     public
inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\n /**\n * Compares
this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a
negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n
    @kotlin.internal.InlineOnly\n     @Suppress("OVERRIDE_BY_INLINE")\n     public override inline operator fun
compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number
if it's greater than other.\n */\n     @kotlin.internal.InlineOnly\n     public inline operator fun compareTo(other:
UInt): Int = this.toUInt().compareTo(other)\n /**\n * Compares this value with the specified value for order.\n
* Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n */\n     @kotlin.internal.InlineOnly\n     public inline operator fun
compareTo(other: ULong): Int = this.toULong().compareTo(other)\n /**\n * Adds the other value to this value. */\n
    @kotlin.internal.InlineOnly\n     public inline operator fun plus(other: UByte): UInt =
this.toUInt().plus(other.toUInt())\n /**\n * Adds the other value to this value. */\n     @kotlin.internal.InlineOnly\n
public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n /**\n * Adds the other value
to this value. */\n     @kotlin.internal.InlineOnly\n     public inline

```

```

operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\n /** Adds the other value to this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun plus(other: ULong): ULong =
this.toULong().plus(other)\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\n /** Subtracts the
other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort):
UInt = this.toUInt().minus(other.toUInt())\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n
/** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
minus(other: ULong): ULong = this.toULong().minus(other)\n\n /** Multiplies this value by the
other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): UInt =
this.toUInt().times(other.toUInt())\n /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())\n /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n
/** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by the other value,
truncating the result to an integer
that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort): UInt =
this.toUInt().div(other.toUInt())\n /** Divides this value by the other value, truncating the result to an integer that
is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt =
this.toUInt().div(other)\n /** Divides this value by the other value, truncating the result to an integer that is closer
to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n /**\n * Calculates the remainder of truncating division of this value (dividend) by
the other value (divisor).\n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): UInt =
this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value
(dividend) by the other value (divisor).\n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt =
this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value
(dividend) by the other value (divisor).\n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n /**\n
* Calculates the remainder of truncating division of this value (dividend) by the other value (divisor).\n * The
result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
rem(other: ULong): ULong = this.toULong().rem(other)\n\n /**\n * Divides this value by the other value,
flooring the result to an integer that is closer to negative infinity.\n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UByte): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UShort): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UInt): UInt = this.toUInt().floorDiv(other)\n /**\n * Divides this value by the
other value,
flooring the result to an integer that is closer to negative infinity.\n * For unsigned types, the results of
flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun

```

```

floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the remainder of
flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is always less than the
divisor.\n *\n * For unsigned types, the remainders of flooring division and truncating division are the same.\n
*/\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte =
this.toUInt().mod(other.toUInt()).toUByte()\n /**\n * Calculates the remainder of flooring division of this value
(dividend) by the other value (divisor).\n *\n * The result is always less than the divisor.\n *\n * For
unsigned types, the remainders of flooring division and truncating
division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UShort): UShort =
this.toUInt().mod(other.toUInt()).toUShort()\n /**\n * Calculates the remainder of flooring division of this
value (dividend) by the other value (divisor).\n *\n * The result is always less than the divisor.\n *\n * For
unsigned types, the remainders of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt = this.toUInt().mod(other)\n /**\n *
Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n *\n * The
result is always less than the divisor.\n *\n * For unsigned types, the remainders of flooring division and
truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: ULong):
ULong = this.toULong().mod(other)\n\n /**\n * Returns
this value incremented by one.\n *\n * @sample samples.misc.Builtins.inc\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun inc(): UShort = UShort(data.inc())\n\n /**\n *
Returns this value decremented by one.\n *\n * @sample samples.misc.Builtins.dec\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun dec(): UShort = UShort(data.dec())\n\n /** Creates a
range from this value to the specified [other] value. *\n @kotlin.internal.InlineOnly\n public inline operator fun
rangeTo(other: UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n\n /**\n * Creates a range from
this value up to but excluding the specified [other] value.\n *\n * If the [other] value is less than or equal to
`this` value, then the returned range is empty.\n */\n @SinceKotlin("1.9")\n
@WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline operator fun
rangeUntil(other:
UShort): UIntRange = this.toUInt() until other.toUInt()\n\n /** Performs a bitwise AND operation between the
two values. *\n @kotlin.internal.InlineOnly\n public inline infix fun and(other: UShort): UShort =
UShort(this.data and other.data)\n\n /** Performs a bitwise OR operation between the two values. *\n
@kotlin.internal.InlineOnly\n public inline infix fun or(other: UShort): UShort = UShort(this.data or other.data)\n
/** Performs a bitwise XOR operation between the two values. *\n @kotlin.internal.InlineOnly\n public inline
infix fun xor(other: UShort): UShort = UShort(this.data xor other.data)\n\n /** Inverts the bits in this value. *\n
@kotlin.internal.InlineOnly\n public inline fun inv(): UShort = UShort(data.inv())\n\n /**\n * Converts this
[UShort] value to [Byte].\n *\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting
`Byte` value represents\n * the same numerical value as this `UShort`.\n
*\n * The resulting `Byte` value is represented by the least significant 8 bits of this `UShort` value.\n * Note
that the resulting `Byte` value may be negative.\n */\n @kotlin.internal.InlineOnly\n public inline fun
toByte(): Byte = data.toByte()\n\n /**\n * Converts this [UShort] value to [Short].\n *\n * If this value is less
than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n * the same numerical value as
this `UShort`. Otherwise the result is negative.\n *\n * The resulting `Short` value has the same binary
representation as this `UShort` value.\n */\n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short =
data\n\n /**\n * Converts this [UShort] value to [Int].\n *\n * The resulting `Int` value represents the same
numerical value as this `UShort`.\n *\n * The least significant 16 bits of the resulting `Int` value are the same as
the bits of this `UShort` value,\n
*\n * whereas the most significant 16 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public
inline fun toInt(): Int = data.toInt() and 0xFFFF\n\n /**\n * Converts this [UShort] value to [Long].\n *\n *
The resulting `Long` value represents the same numerical value as this `UShort`.\n *\n * The least significant
16 bits of the resulting `Long` value are the same as the bits of this `UShort` value,\n * whereas the most

```

```

significant 48 bits are filled with zeros.\n *^n @kotlin.internal.InlineOnly\n public inline fun toLong(): Long
= data.toLong() and 0xFFFF\n\n /**\n * Converts this [UShort] value to [UByte].\n *\n * If this value is
less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical
value as this `UShort`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this
`UShort` value.\n *^n @kotlin.internal.InlineOnly\n
public inline fun toUByte(): UByte = data.toUByte()\n /** Returns this value. *\n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = this\n /**\n * Converts this [UShort]
value to [UInt].\n *\n * The resulting `UInt` value represents the same numerical value as this `UShort`.\n
*\n * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `UShort` value,\n
*\n * whereas the most significant 16 bits are filled with zeros.\n *^n @kotlin.internal.InlineOnly\n public inline
fun toUInt(): UInt = UInt(data.toInt() and 0xFFFF)\n /**\n * Converts this [UShort] value to [ULong].\n *\n
* The resulting `ULong` value represents the same numerical value as this `UShort`.\n *\n * The least
significant 16 bits of the resulting `ULong` value are the same as the bits of this `UShort` value,\n * whereas the
most significant 48 bits are filled with zeros.\n *^n @kotlin.internal.InlineOnly\n
public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF)\n\n /**\n * Converts this [UShort]
value to [Float].\n *\n * The resulting `Float` value represents the same numerical value as this `UShort`.\n
*\n @kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toInt().toFloat()\n /**\n *
Converts this [UShort] value to [Double].\n *\n * The resulting `Double` value represents the same numerical
value as this `UShort`.\n *^n @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double =
this.toInt().toDouble()\n\n public override fun toString(): String = toInt().toString()\n\n}\n\n/**\n * Converts this
[Byte] value to [UShort].\n *\n * If this value is positive, the resulting `UShort` value represents the same numerical
value as this `Byte`.\n *\n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this
`Byte` value,\n * whereas
the most significant 8 bits are filled with the sign bit of this value.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Byte.toUShort(): UShort = UShort(this.toShort())\n/**\n * Converts this [Short] value to
[UShort].\n *\n * If this value is positive, the resulting `UShort` value represents the same numerical value as this
`Short`.\n *\n * The resulting `UShort` value has the same binary representation as this `Short` value.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Short.toUShort(): UShort = UShort(this)\n/**\n * Converts this [Int] value to [UShort].\n *\n
* If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n
* the same numerical value as this `Int`.\n *\n * The resulting `UShort` value is represented by the least significant 16
bits of this `Int` value.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Int.toUShort(): UShort = UShort(this.toShort())\n/**\n * Converts this [Long] value to
[UShort].\n *\n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort`
value represents\n * the same numerical value as this `Long`.\n *\n * The resulting `UShort` value is represented by
the least significant 16 bits of this `Long` value.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Long.toUShort(): UShort = UShort(this.toShort())\n", "\n * Copyright 2010-2023 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*\n@n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n@file:OptIn(kotlin.exper
imental.ExperimentalTypeInference::class)\n\npackage
kotlin.collections\n\nimport kotlin.contracts.*\nimport kotlin.random.Random\n\ninternal object EmptyIterator :
ListIterator<Nothing> {\n override fun hasNext(): Boolean = false\n override fun hasPrevious(): Boolean =
false\n override fun nextIndex(): Int = 0\n override fun previousIndex(): Int = -1\n override fun next(): Nothing
= throw NoSuchElementException()\n override fun previous(): Nothing = throw

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NoSuchElementException()\n}\n\ninternal object EmptyList : List<Nothing>, Serializable, RandomAccess {\n
private const val serialVersionUID: Long = -7390468764508069838L\n\n override fun equals(other: Any?):
Boolean = other is List<*> && other.isEmpty()\n override fun hashCode(): Int = 1\n override fun toString():
String = \"[]\"\n\n override val size: Int get() = 0\n override fun isEmpty(): Boolean = true\n override fun
contains(element: Nothing): Boolean = false\n override fun containsAll(elements:
Collection<Nothing>): Boolean = elements.isEmpty()\n\n override fun get(index: Int): Nothing = throw
IndexOutOfBoundsException(\"Empty list doesn't contain element at index $index.\")\n override fun
indexOf(element: Nothing): Int = -1\n override fun lastIndexOf(element: Nothing): Int = -1\n\n override fun
iterator(): Iterator<Nothing> = EmptyIterator\n override fun listIterator(): ListIterator<Nothing> = EmptyIterator\n
override fun listIterator(index: Int): ListIterator<Nothing> {\n if (index != 0) throw
IndexOutOfBoundsException(\"Index: $index\")\n return EmptyIterator\n }\n\n override fun
subList(fromIndex: Int, toIndex: Int): List<Nothing> {\n if (fromIndex == 0 && toIndex == 0) return this\n
throw IndexOutOfBoundsException(\"fromIndex: $fromIndex, toIndex: $toIndex\")\n }\n\n private fun
readResolve(): Any = EmptyList\n}\n\ninternal fun <T> Array<out T>.asCollection(): Collection<T> =
ArrayAsCollection(this, isVarargs
= false)\n\nprivate class ArrayAsCollection<T>(val values: Array<out T>, val isVarargs: Boolean) : Collection<T>
{\n override val size: Int get() = values.size\n override fun isEmpty(): Boolean = values.isEmpty()\n override
fun contains(element: T): Boolean = values.contains(element)\n override fun containsAll(elements:
Collection<T>): Boolean = elements.all { contains(it) }\n override fun iterator(): Iterator<T> = values.iterator()\n
// override hidden toArray implementation to prevent copying of values array\n public fun toArray(): Array<out
Any?> = values.copyToArrayOfAny(isVarargs)\n}\n\n/**\n * Returns an empty read-only list. The returned list is
serializable (JVM).\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\n */\npublic fun <T>
emptyList(): List<T> = EmptyList\n\n/**\n * Returns a new read-only list of given elements. The returned list is
serializable (JVM).\n * @sample samples.collections.Collections.Lists.readOnlyList\n */\npublic
fun <T> listOf(vararg elements: T): List<T> = if (elements.size > 0) elements.asList() else emptyList()\n\n/**\n *
Returns a new read-only list containing only the specified object [element].\n * The returned list is serializable
(JVM).\n * @sample samples.collections.Collections.Lists.singletonReadOnlyList\n */\n\n@SinceKotlin(\"1.9\")\npublic expect fun <T> listOf(element: T): List<T>\n\n/**\n * Returns an empty read-
only list. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.emptyReadOnlyList\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun <T>
listOf(): List<T> = emptyList()\n\n/**\n * Returns an empty new [MutableList].\n * @sample
samples.collections.Collections.Lists.emptyMutableList\n */\n\n@SinceKotlin(\"1.1\")\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableListOf(): MutableList<T> =
ArrayList()\n\n/**\n * Returns an empty new [ArrayList].\n * @sample
samples.collections.Collections.Lists.emptyArrayList\n */\n\n@SinceKotlin(\"1.1\")\n\n@kotlin.internal.InlineOnly\npublic
inline fun <T> arrayListOf(): ArrayList<T> = ArrayList()\n\n/**\n * Returns a new [MutableList] with the given
elements.\n * @sample samples.collections.Collections.Lists.mutableList\n */\n\npublic fun <T>
mutableListOf(vararg elements: T): MutableList<T> =\n if (elements.size == 0) ArrayList() else
ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n/**\n * Returns a new [ArrayList] with the given
elements.\n * @sample samples.collections.Collections.Lists.arrayList\n */\n\npublic fun <T> arrayListOf(vararg
elements: T): ArrayList<T> =\n if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements,
isVarargs = true))\n\n/**\n * Returns a new read-only list either of single given element, if it is not null, or empty
list if the element is null. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.listOfNotNull\n */\n\npublic fun <T : Any> listOfNotNull(element: T?):
List<T> = if (element != null) listOf(element) else emptyList()\n\n/**\n * Returns a new read-only list only of those
given elements, that are not null. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.listOfNotNull\n */\n\npublic fun <T : Any> listOfNotNull(vararg elements: T?):

```

```

List<T> = elements.filterNotNull()\n\n/**\n * Creates a new read-only list with the specified [size], where each
element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each list
element sequentially starting from the first one.\n * It should return the value for a list element given its index.\n *\n
* @sample samples.collections.Collections.Lists.readOnlyListFromInitializer\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> List(size: Int, init: (index: Int) -> T):
List<T> = MutableList(size, init)\n\n/**\n * Creates a new mutable list with the specified [size], where each element
is calculated
by calling the specified\n * [init] function.\n *\n * The function [init] is called for each list element sequentially
starting from the first one.\n * It should return the value for a list element given its index.\n *\n * @sample
samples.collections.Collections.Lists.mutableListFromInitializer\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> MutableList(size: Int, init: (index:
Int) -> T): MutableList<T> {\n    val list = ArrayList<T>(size)\n    repeat(size) { index -> list.add(init(index)) }\n
return list\n}\n\n/**\n * Builds a new read-only [List] by populating a [MutableList] using the given
[builderAction]\n * and returning a read-only list with the same elements.\n *\n * The list passed as a receiver to the
[builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified
behavior.\n *\n * The returned list is serializable (JVM).\n *\n * @sample
samples.collections.Builders.Lists.buildListSample\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Su
ppress("DEPRECATION")\npublic inline fun <E> buildList(@BuilderInference builderAction: MutableList<E>().
-> Unit): List<E> {\n    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return
buildListInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninter
nal expect inline fun <E> buildListInternal(builderAction: MutableList<E>().-> Unit): List<E>\n\n/**\n * Builds a
new read-only [List] by populating a [MutableList] using the given [builderAction]\n * and returning a read-only list
with the same elements.\n *\n * The list passed as a receiver to the [builderAction] is valid only inside that
function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * The returned list is
serializable (JVM).\n *\n * [capacity] is used to hint the expected number of elements added in the
[builderAction].\n
*\n * @throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample
samples.collections.Builders.Lists.buildListSampleWithCapacity\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Su
ppress("DEPRECATION")\npublic inline fun <E> buildList(capacity: Int, @BuilderInference builderAction:
MutableList<E>().-> Unit): List<E> {\n    contract { callsInPlace(builderAction,
InvocationKind.EXACTLY_ONCE) }\n    return buildListInternal(capacity,
builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal expect inline
fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>().-> Unit): List<E>\n\n/**\n * Returns an
[IntRange] of the valid indices for this collection.\n * @sample
samples.collections.Collections.Collections.indicesOfCollection\n *\npublic val Collection<*>.indices: IntRange\n
get() = 0..size - 1\n\n/**\n * Returns the index of the last
item in the list or -1 if the list is empty.\n *\n * @sample samples.collections.Collections.Lists.lastIndexOfList\n
*\npublic val <T> List<T>.lastIndex: Int\n    get() = this.size - 1\n\n/**\n * Returns `true` if the collection is not
empty.\n * @sample samples.collections.Collections.Collections.collectionIsNotEmpty\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.isNotEmpty(): Boolean =
!isEmpty()\n\n/**\n * Returns `true` if this nullable collection is either null or empty.\n * @sample
samples.collections.Collections.Collections.collectionIsNullOrEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.isNullOrEmpty():
Boolean {\n    contract {\n        returns(false) implies (this@isNullOrEmpty != null)\n    }\n    return this == null ||
this.isEmpty()\n}\n\n/**\n * Returns this Collection if it's not `null` and the empty list otherwise.\n * @sample
samples.collections.Collections.Collections.collectionOrEmpty\n

```



```

*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.orEmpty(): Collection<T> = this ?:
emptyList()\n\n/**\n * Returns this List if it's not `null` and the empty list otherwise.\n * @sample
samples.collections.Collections.Lists.listOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T>
List<T>?.orEmpty(): List<T> = this ?: emptyList()\n\n/**\n * Returns this collection if it's not empty\n * or the
result of calling [defaultValue] function if the collection is empty.\n * \n * @sample
samples.collections.Collections.Collections.collectionIfEmpty\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () ->
R): R where C : Collection<*>, C : R =\n    if (isEmpty()) defaultValue() else this\n\n\n/**\n * Checks if all
elements in the specified collection are contained in this collection.\n * \n * Allows to overcome type-safety
restriction of `containsAll` that requires to pass a collection of type `Collection<E>`.\n
* @sample samples.collections.Collections.Collections.collectionContainsAll\n
*/\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T>
Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)\n\n\n/**\n * Returns a
new list with the elements of this list randomly shuffled\n * using the specified [random] instance as the source of
randomness.\n * \n */\n@SinceKotlin("1.3")\npublic fun <T> Iterable<T>.shuffled(random: Random): List<T> =
toMutableList().apply { shuffle(random) }\n\n\ninternal fun <T> List<T>.optimizeReadOnlyList() = when (size) {\n
0 -> emptyList()\n 1 -> listOf(this[0])\n else -> this\n}\n\n\n/**\n * Searches this list or its range for the provided
[element] using the binary search algorithm.\n * The list is expected to be sorted into ascending order according to
the Comparable natural ordering of its
elements,\n * otherwise the result is undefined.\n * \n * If the list contains multiple elements equal to the specified
[element], there is no guarantee which one will be found.\n * \n * `null` value is considered to be less than any non-
null value.\n * \n * @return the index of the element, if it is contained in the list within the specified range;\n *
otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which
the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted.\n *
* @sample samples.collections.Collections.Lists.binarySearchOnComparable\n * @sample
samples.collections.Collections.Lists.binarySearchWithBoundaries\n */\npublic fun <T : Comparable<T>>
List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\n    rangeCheck(size, fromIndex,
toIndex)\n    var low = fromIndex\n    var high = toIndex - 1\n    while (low <= high) {\n        val
mid = (low + high).ushr(1) // safe from overflows\n        val midVal = get(mid)\n        val cmp =
compareValues(midVal, element)\n        if (cmp < 0)\n            low = mid + 1\n        else if (cmp > 0)\n            high
= mid - 1\n        else\n            return mid // key found\n    }\n    return -(low + 1) // key not found\n}\n\n\n/**\n *
Searches this list or its range for the provided [element] using the binary search algorithm.\n * The list is expected to
be sorted into ascending order according to the specified [comparator],\n * otherwise the result is undefined.\n * \n *
If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be
found.\n * \n * `null` value is considered to be less than any non-null value.\n * \n * @return the index of the element,
if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point -
1)`.\n * The insertion point is defined as the index
at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted
according to the specified [comparator].\n * @sample
samples.collections.Collections.Lists.binarySearchWithComparator\n */\npublic fun <T>
List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {\n
rangeCheck(size, fromIndex, toIndex)\n    var low = fromIndex\n    var high = toIndex - 1\n    while (low <=
high) {\n        val mid = (low + high).ushr(1) // safe from overflows\n        val midVal = get(mid)\n        val cmp =
comparator.compare(midVal, element)\n        if (cmp < 0)\n            low = mid + 1\n        else if (cmp > 0)\n            high
= mid - 1\n        else\n            return mid // key found\n    }\n    return -(low + 1) // key not found\n}\n\n\n/**\n *
Searches this list or its range for an element having the key returned by the specified [selector] function\n * equal to
the provided [key]

```

value using the binary search algorithm.  
 \* The list is expected to be sorted into ascending order according to the Comparable natural ordering of keys of its elements.  
 \* otherwise the result is undefined.  
 \* If the list contains multiple elements with the specified [key], there is no guarantee which one will be found.  
 \* `null` value is considered to be less than any non-null value.  
 \* @return the index of the element with the specified [key], if it is contained in the list within the specified range;  
 \* otherwise, the inverted insertion point `(-insertion point - 1)`.  
 \* The insertion point is defined as the index at which the element should be inserted,  
 \* so that the list (or the specified subrange of list) still remains sorted.  
 \* @sample

```
samples.collections.Collections.Lists.binarySearchByKey
public inline fun <T, K : Comparable<K>>
List<T>.binarySearchBy(
    key: K?,
    fromIndex: Int = 0,
    toIndex: Int = size,
    crossinline selector: (T) -> K?
): Int =
    binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }
// do not introduce this overload --- too rare
public fun <T, K> List<T>.binarySearchBy(
    key: K,
    comparator: Comparator<K>,
    fromIndex: Int = 0,
    toIndex: Int = size(),
    selector: (T) -> K
): Int =
    binarySearch(fromIndex, toIndex) {
        comparator.compare(selector(it), key)
    }
/**
 * Searches this list or its range for an element for which the given [comparison] function returns zero using the binary search algorithm.
 * The list is expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements,
 * i.e. negative values come before zero and zeroes come before positive values.
 * Otherwise, the result is undefined.
 * If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found.
 * @param comparison function that returns zero when called on the list element being searched.
 * On the elements coming before the target element, the function must return negative values;
 * on the elements coming after the target element, the function must return positive values.
 * @return the index of the found element, if it is contained in the list within the specified range;
 * otherwise, the inverted insertion point (-insertion point - 1).
 * The insertion point is defined as the index at which the element should be inserted,
 * so that the list (or the specified subrange of list) still remains sorted.
 * @sample
```

```
samples.collections.Collections.Lists.binarySearchWithComparisonFunction
public fun <T>
List<T>.binarySearch(
    fromIndex: Int = 0,
    toIndex: Int = size,
    comparison: (T) -> Int
): Int {
    rangeCheck(size, fromIndex, toIndex)
    var low = fromIndex
    var high = toIndex - 1
    while (low <= high) {
        val mid = (low + high).ushr(1) // safe from overflows
        val midVal = get(mid)
        val cmp = comparison(midVal)
        if (cmp < 0)
            low = mid + 1
        else if (cmp > 0)
            high = mid - 1
        else
            return mid // key found
    }
    return -(low + 1) // key not found
}
/**
 * Checks that `from` and `to` are in the range of [0..size] and throws an appropriate exception, if they aren't.
 * @private fun rangeCheck(
    size: Int,
    fromIndex: Int,
    toIndex: Int
) {
    when {
        fromIndex > toIndex -> throw
        IllegalArgumentException("fromIndex ($fromIndex) is greater than toIndex ($toIndex).")
        fromIndex < 0 ->
        throw IndexOutOfBoundsException("fromIndex ($fromIndex) is less than zero.")
        toIndex > size -> throw
        IndexOutOfBoundsException("toIndex ($toIndex) is greater than size ($size).")
    }
}
@PublishedApi
@SinceKotlin("1.3")
internal expect fun checkIndexOverflow(index: Int): Int
@PublishedApi
@SinceKotlin("1.3")
internal expect fun checkCountOverflow(count: Int): Int
@PublishedApi
@SinceKotlin("1.3")
internal fun throwIndexOverflow() {
    throw ArithmeticException("Index overflow has happened.")
}
@PublishedApi
@SinceKotlin("1.3")
internal fun throwCountOverflow() {
    throw ArithmeticException("Count overflow has happened.")
}
/**
 * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MapsKt")
@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)
package kotlin.collections
import kotlin.contracts.*
private object EmptyMap : Map<Any?, Nothing>, Serializable {
    private const val serialVersionUID: Long = 8246714829545688274
    override fun equals(other: Any?): Boolean = other is Map<*, *> && other.isEmpty()
    override fun hashCode(): Int = 0
    override fun toString(): String = "{}"
    override
```

```

val size: Int get() = 0\n  override fun isEmpty(): Boolean = true\n\n  override fun containsKey(key: Any?):
Boolean = false\n  override fun containsValue(value: Nothing): Boolean = false\n  override fun get(key: Any?):
Nothing? = null\n  override val entries: Set<Map.Entry<Any?, Nothing>> get() = EmptySet\n  override val keys:
Set<Any?> get() = EmptySet\n  override val values: Collection<Nothing> get() = EmptyList\n\n  private fun
readResolve(): Any = EmptyMap\n}\n\n/**\n * Returns an empty read-only map of specified type.\n * The
returned map is serializable (JVM).\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n
*/\npublic fun <K, V> emptyMap(): Map<K, V> = @Suppress("\UNCHECKED_CAST") (EmptyMap as Map<K,
V>)\n\n/**\n * Returns a new read-only map with the specified contents, given as a list of pairs\n * where the first
value is the key and the second is the value.\n * If multiple pairs have the same key, the resulting map will
contain the
value from the last of those pairs.\n * Entries of the map are iterated in the order they were specified.\n * The
returned map is serializable (JVM).\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\n
*/\npublic fun <K, V> mapOf(vararg pairs: Pair<K, V>): Map<K, V> =\n  if (pairs.size > 0)
pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else emptyMap()\n\n/**\n * Returns a new read-only map,
mapping only the specified key to the\n * specified value.\n * The returned map is serializable (JVM).\n *
@sample samples.collections.Maps.Instantiation.mapFromPairs\n */\n@SinceKotlin("1.9")\npublic expect fun <K,
V> mapOf(pair: Pair<K, V>): Map<K, V>\n\n/**\n * Returns an empty read-only map.\n * The returned map is
serializable (JVM).\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> mapOf(): Map<K, V> = emptyMap()\n\n/**\n * Returns
an empty new [MutableMap].\n */\n\nThe returned map preserves the entry iteration order.\n * @sample
samples.collections.Maps.Instantiation.emptyMutableMap\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> mutableMapOf():
MutableMap<K, V> = LinkedHashMap()\n\n/**\n * Returns a new [MutableMap] with the specified contents, given
as a list of pairs\n * where the first component is the key and the second is the value.\n * If multiple pairs have
the same key, the resulting map will contain the value from the last of those pairs.\n * Entries of the map are
iterated in the order they were specified.\n * @sample
samples.collections.Maps.Instantiation.mutableMapFromPairs\n * @sample
samples.collections.Maps.Instantiation.emptyMutableMap\n */\npublic fun <K, V> mutableMapOf(vararg pairs:
Pair<K, V>): MutableMap<K, V> =\n  LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs)
}\n\n/**\n * Returns an empty new [HashMap].\n */\n@sample
samples.collections.Maps.Instantiation.emptyHashMap\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> hashMapOf(): HashMap<K, V>
= HashMap<K, V>()\n\n/**\n * Returns a new [HashMap] with the specified contents, given as a list of pairs\n *
where the first component is the key and the second is the value.\n * @sample
samples.collections.Maps.Instantiation.hashMapFromPairs\n */\npublic fun <K, V> hashMapOf(vararg pairs:
Pair<K, V>): HashMap<K, V> = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\n\n/**\n *
Returns an empty new [LinkedHashMap].\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline
fun <K, V> linkedMapOf(): LinkedHashMap<K, V> = LinkedHashMap<K, V>()\n\n/**\n * Returns a new
[LinkedHashMap] with the specified contents, given as a list of pairs\n * where the first component is the key and
the second is the value.\n * If multiple pairs have the same key, the resulting map will contain the value from the
last of those pairs.\n * Entries
of the map are iterated in the order they were specified.\n * @sample
samples.collections.Maps.Instantiation.linkedMapFromPairs\n */\npublic fun <K, V> linkedMapOf(vararg pairs:
Pair<K, V>): LinkedHashMap<K, V> = pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))\n\n/**\n * Builds
a new read-only [Map] by populating a [MutableMap] using the given [builderAction]\n * and returning a read-only
map with the same key-value pairs.\n * The map passed as a receiver to the [builderAction] is valid only inside
that function.\n * Using it outside of the function produces an unspecified behavior.\n * Entries of the map are

```

iterated in the order they were added by the [builderAction].\n \*\n \* The returned map is serializable (JVM).\n \*\n \* @sample samples.collections.Builders.Maps.buildMapSample\n

```

*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION")\npublic inline fun <K, V> buildMap(@BuilderInference builderAction: MutableMap<K, V>().->Unit): Map<K, V> {\n    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return buildMapInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>().->Unit): Map<K, V>\n\n/**\n * Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction]\n * and returning a read-only map with the same key-value pairs.\n * The map passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n * [capacity] is used to hint the expected number of pairs added in the [builderAction].\n * Entries of the map are iterated in the order they were added by the [builderAction].\n * The returned map is serializable (JVM).\n * @throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample samples.collections.Builders.Maps.buildMapSample\n
*/\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION")\npublic inline fun <K, V> buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>().->Unit): Map<K, V> {\n    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return buildMapInternal(capacity, builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>().->Unit): Map<K, V>\n\n/**\n * Calculate the initial capacity of a map.\n *\n * @sample samples.collections.Maps.Usage.mapCapacity\n
*/\n@PublishedApi\ninternal expect fun mapCapacity(expectedSize: Int): Int\n\n/**\n * Returns `true` if this map is not empty.\n *\n * @sample samples.collections.Maps.Usage.mapIsNotEmpty\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.isNotEmpty(): Boolean = !isEmpty()\n\n/**\n * Returns `true` if this nullable map is either null or empty.\n *\n * @sample samples.collections.Maps.Usage.mapIsNullOrEmpty\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.isNullOrEmpty(): Boolean {\n    contract {\n        returns(false) implies (this@isNullOrEmpty != null)\n    }\n    return this == null || isEmpty()\n}\n\n/**\n * Returns the [Map] if its not `null`, or the empty [Map] otherwise.\n *\n * @sample samples.collections.Maps.Usage.mapOrElse\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<K, V>?.orElse(): Map<K, V> = this ?: emptyMap()\n\n/**\n * Returns this map if it's not empty\n * or the result of calling [defaultValue] function if the map is empty.\n *\n * @sample samples.collections.Maps.Usage.mapIfEmpty\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =\n    if (isEmpty())\n        defaultValue()\n    else this\n\n/**\n * Checks if the map contains the given key.\n * This method allows to use the `x in map` syntax for checking whether an object is contained in the map.\n *\n * @sample samples.collections.Maps.Usage.containsKey\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean = containsKey(key)\n\n/**\n * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\n *\n * @kotlin.internal.InlineOnly\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.get(key: K): V? =\n    @Suppress("UNCHECKED_CAST") (this as Map<K, V>).get(key)\n\n/**\n * Allows to use the index operator for storing values in a mutable map.\n *\n * @kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.set(key: K, value: V): Unit {\n    put(key, value)\n}\n\n/**\n * Returns `true` if the map contains the specified [key].\n *\n * Allows to overcome type-safety restriction of `containsKey` that requires to pass a key of type `K`.\n *\n * @kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes K> Map<out K,

```

```

*>.containsKey(key: K): Boolean = \n @Suppress("UNCHECKED_CAST") (this as Map<K,
*>.containsKey(key)\n\n/**\n * Returns `true` if the map maps one or more keys to the specified [value].\n *\n * Allows to overcome type-safety restriction of `containsValue` that requires to pass a value of type `V`.\n *\n * @sample samples.collections.Maps.Usage.containsValue\n
*\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases\n@kotlin.internal.InlineOnly\npublic inline fun <K, @kotlin.internal.OnlyInputTypes V> Map<K,
V>.containsValue(value: V): Boolean = this.containsValue(value)\n\n/**\n * Removes the specified key and its
corresponding value from this map.\n *\n * @return the previous value associated with the key, or `null` if the key
was not present in
the map.\n *\n * Allows to overcome type-safety restriction of `remove` that requires to pass a key of type `K`.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes K, V> MutableMap<out K,
V>.remove(key: K): V? = \n @Suppress("UNCHECKED_CAST") (this as MutableMap<K,
V>).remove(key)\n\n/**\n * Returns the key component of the map entry.\n *\n * This method allows to use
destructuring declarations when working with maps, for example:\n * ```\n * for ((key, value) in map) {\n * // do
something with the key and the value\n * }\n * ```\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <K,
V> Map.Entry<K, V>.component1(): K = key\n\n/**\n * Returns the value component of the map entry.\n *\n * This
method allows to use destructuring declarations when working with maps, for example:\n * ```\n * for ((key,
value) in map) {\n * // do something with the key and the value\n * }\n * ```\n
*\n@kotlin.internal.InlineOnly\npublic inline operator
fun <K, V> Map.Entry<K, V>.component2(): V = value\n\n/**\n * Converts entry to [Pair] with key being first
component and value being second.\n *\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map.Entry<K,
V>.toPair(): Pair<K, V> = Pair(key, value)\n\n/**\n * Returns the value for the given [key] if the value is present
and not `null`.\n *\n * Otherwise, returns the result of the [defaultValue] function.\n *\n * @sample
samples.collections.Maps.Usage.getOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<K,
V>.getOrElse(key: K, defaultValue: () -> V): V = get(key) ?: defaultValue()\n\n\ninternal inline fun <K, V>
Map<K, V>.getOrElseNullable(key: K, defaultValue: () -> V): V {\n val value = get(key)\n if (value == null
&& !containsKey(key)) {\n return defaultValue()\n } else {\n @Suppress("UNCHECKED_CAST")\n
return value as V\n }\n}\n\n/**\n * Returns the value for the given [key] or throws an exception if there is no
such key
in the map.\n *\n * If the map was created by [withDefault], resorts to its `defaultValue` provider function\n *
instead of throwing an exception.\n *\n * @throws NoSuchElementException when the map doesn't contain a value
for the specified key and\n * no implicit default value was provided for that map.\n
*\n@kotlin.SinceKotlin("1.1")\npublic fun <K, V> Map<K, V>.getValue(key: K): V =
getOrImplicitDefault(key)\n\n/**\n * Returns the value for the given [key] if the value is present and not `null`.\n *
Otherwise, calls the [defaultValue] function,\n * puts its result into the map under the given key and returns the call
result.\n *\n * Note that the operation is not guaranteed to be atomic if the map is being modified concurrently.\n
*\n * @sample samples.collections.Maps.Usage.getOrPut\n *\npublic inline fun <K, V> MutableMap<K,
V>.getOrPut(key: K, defaultValue: () -> V): V {\n val value = get(key)\n return if (value == null) {\n val
answer = defaultValue()\n put(key,
answer)\n answer\n } else {\n value\n }\n}\n\n/**\n * Returns an [Iterator] over the entries in the
[Map].\n *\n * @sample samples.collections.Maps.Usage.forOverEntries\n *\n@kotlin.internal.InlineOnly\npublic
inline operator fun <K, V> Map<out K, V>.iterator(): Iterator<Map.Entry<K, V>> = entries.iterator()\n\n/**\n *
Returns a [MutableIterator] over the mutable entries in the [MutableMap].\n *\n
*\n@kotlin.jvm.JvmName("mutableIterator")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V>
MutableMap<K, V>.iterator(): MutableIterator<MutableMap.MutableEntry<K, V>> = entries.iterator()\n\n/**\n *
Populates the given [destination] map with entries having the keys of this map and the values obtained\n * by
applying the [transform] function to each entry in this [Map].\n *\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R, M : MutableMap<in
K, in R>> Map<out K, V>.mapValuesTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {\n return

```

```

entries.associateByTo(destination,
  { it.key }, transform)\n\n/**\n * Populates the given [destination] map with entries having the keys obtained\n *
by applying the [transform] function to each entry in this [Map] and the values of this map.\n *\n * In case if any
two entries are mapped to the equal keys, the value of the latter one will overwrite\n *
the value associated with the
former one.\n *\npublic inline fun <K, V, R, M : MutableMap<in R, in V>> Map<out K,
V>.mapKeysTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {\n  return
entries.associateByTo(destination, transform, { it.value })\n\n/**\n * Puts all the given [pairs] into this
[MutableMap] with the first component in the pair being the key and the second the value.\n *\npublic fun <K, V>
MutableMap<in K, in V>.putAll(pairs: Array<out Pair<K, V>>): Unit {\n  for ((key, value) in pairs) {\n
put(key, value)\n  }\n\n/**\n * Puts all the elements of the given collection into this [MutableMap] with the first
component in the
pair being the key and the second the value.\n *\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs:
Iterable<Pair<K, V>>): Unit {\n  for ((key, value) in pairs) {\n    put(key, value)\n  }\n\n/**\n * Puts all the
elements of the given sequence into this [MutableMap] with the first component in the pair being the key and the
second the value.\n *\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Sequence<Pair<K, V>>): Unit
{\n  for ((key, value) in pairs) {\n    put(key, value)\n  }\n\n/**\n * Returns a new map with entries having
the keys of this map and the values obtained by applying the [transform]\n *
function to each entry in this [Map].\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n * @sample
samples.collections.Maps.Transformations.mapValues\n *\npublic inline fun <K, V, R> Map<out K,
V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {\n  return mapValuesTo(LinkedHashMap<K,
R>(mapCapacity(size)),
transform) // .optimizeReadOnlyMap()\n\n/**\n * Returns a new Map with entries having the keys obtained by
applying the [transform] function to each entry in this\n *
[Map] and the values of this map.\n *\n * In case if any
two entries are mapped to the equal keys, the value of the latter one will overwrite\n *
the value associated with the
former one.\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n * @sample
samples.collections.Maps.Transformations.mapKeys\n *\npublic inline fun <K, V, R> Map<out K,
V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {\n  return mapKeysTo(LinkedHashMap<R,
V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all key-
value pairs with keys matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of
the original map.\n *\n * @sample samples.collections.Maps.Filtering.filterKeys\n *\npublic inline fun <K, V>
Map<out K, V>.filterKeys(predicate:
(K) -> Boolean): Map<K, V> {\n  val result = LinkedHashMap<K, V>()\n  for (entry in this) {\n    if
(predicate(entry.key)) {\n      result.put(entry.key, entry.value)\n    }\n  }\n  return result\n\n/**\n *
Returns a map containing all key-value pairs with values matching the given [predicate].\n *\n * The returned map
preserves the entry iteration order of the original map.\n *\n * @sample
samples.collections.Maps.Filtering.filterValues\n *\npublic inline fun <K, V> Map<out K,
V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {\n  val result = LinkedHashMap<K, V>()\n  for (entry
in this) {\n    if (predicate(entry.value)) {\n      result.put(entry.key, entry.value)\n    }\n  }\n  return
result\n\n/**\n * Appends all entries matching the given [predicate] into the mutable map given as [destination]
parameter.\n *\n * @return the destination map.\n *\n * @sample samples.collections.Maps.Filtering.filterTo\n
*\npublic
inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterTo(destination: M, predicate:
(Map.Entry<K, V>) -> Boolean): M {\n  for (element in this) {\n    if (predicate(element)) {\n
destination.put(element.key, element.value)\n    }\n  }\n  return destination\n\n/**\n * Returns a new map
containing all key-value pairs matching the given [predicate].\n *\n * The returned map preserves the entry iteration
order of the original map.\n *\n * @sample samples.collections.Maps.Filtering.filter\n *\npublic inline fun <K, V>
Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n  return
filterTo(LinkedHashMap<K, V>(), predicate)\n\n/**\n * Appends all entries not matching the given [predicate]

```

into the given [destination].

```

    * @return the destination map.
    * @sample
    samples.collections.Maps.Filtering.filterNotTo
    ^\npublic inline fun <K, V, M : MutableMap<in K, in V>>
    Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K,
    V>) -> Boolean): M {
    \n    for (element in this) {
    \n        if (!predicate(element)) {
    \n            destination.put(element.key, element.value)
    \n        }
    \n    }
    \n    return destination
    \n}
    **\n * Returns a new map containing all key-value pairs not matching the given [predicate].
    * The returned map preserves the entry iteration order of the original map.
    * @sample samples.collections.Maps.Filtering.filterNot
    ^\npublic inline fun <K, V> Map<out K, V>.filterNot(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {
    \n    return filterNotTo(LinkedHashMap<K, V>(), predicate)
    \n}
    **\n * Returns a new map containing all key-value pairs from the given collection of pairs.
    * The returned map preserves the entry iteration order of the original collection.
    * If any of two pairs would have the same key the last one gets added to the map.
    ^\npublic fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V> {
    \n    if (this is Collection) {
    \n        return when (size) {
    \n            0 -> emptyMap()
    \n            1 -> mapOf(if (this is List) this[0] else iterator().next())
    \n            else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))
    \n        }
    \n    }
    \n    return toMap(LinkedHashMap<K, V>().optimizeReadOnlyMap())
    \n}
    **\n * Populates and returns the [destination] mutable map with key-value pairs from the given collection of pairs.
    ^\npublic fun <K, V, M : MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M =
    \n    destination.apply { putAll(this@toMap) }
    \n}
    **\n * Returns a new map containing all key-value pairs from the given array of pairs.
    * The returned map preserves the entry iteration order of the original array.
    * If any of two pairs would have the same key the last one gets added to the map.
    ^\npublic fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K, V> = when (size) {
    \n    0 -> emptyMap()
    \n    1 -> mapOf(this[0])
    \n    else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))
    \n}
    **\n * Populates and returns the [destination] mutable map with key-value pairs from the given array of pairs.
    ^\npublic fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K, V>>.toMap(destination: M): M =
    \n    destination.apply { putAll(this@toMap) }
    \n}
    **\n * Returns a new map containing all key-value pairs from the given sequence of pairs.
    * The returned map preserves the entry iteration order of the original sequence.
    * If any of two pairs would have the same key the last one gets added to the map.
    ^\npublic fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> = toMap(LinkedHashMap<K, V>().optimizeReadOnlyMap())
    **\n * Populates and returns the [destination] mutable map with key-value pairs from the given sequence of pairs.
    ^\npublic fun <K, V, M : MutableMap<in K, in V>> Sequence<Pair<K, V>>.toMap(destination: M): M =
    \n    destination.apply { putAll(this@toMap) }
    \n}
    **\n * Returns a new read-only map containing all key-value pairs from the original map.
    * The returned map preserves the entry iteration order of the original map.
    ^\n@SinceKotlin("1.1")\npublic fun <K, V> Map<out K, V>.toMap(): Map<K, V> = when (size) {
    \n    0 -> emptyMap()
    \n    1 -> toSingletonMap()
    \n    else -> toMutableMap()
    \n}
    **\n * Returns a new mutable map containing all key-value pairs from the original map.
    * The returned map preserves the entry iteration order of the original map.
    ^\n@SinceKotlin("1.1")\npublic fun <K, V> Map<out K, V>.toMutableMap(): MutableMap<K, V> = LinkedHashMap(this)
    **\n * Populates and returns the [destination] mutable map with key-value pairs from the given map.
    ^\n@SinceKotlin("1.1")\npublic fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.toMap(destination: M): M =
    \n    destination.apply { putAll(this@toMap) }
    \n}
    **\n * Creates a new read-only map by replacing or adding an entry to this map from a given key-value [pair].
    * The returned map preserves the entry iteration order of the original map.
    * The [pair] is iterated in the end if it has a unique key.
    ^\npublic operator fun <K, V> Map<out K, V>.plus(pair: Pair<K, V>): Map<K, V> =
    \n    if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply { put(pair.first, pair.second) }
    \n}
    **\n * Creates a new read-only map by replacing or adding entries to this map from a given collection of key-value [pairs].
    * The returned map preserves the entry iteration order of the original map.
    * Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.
    ^\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V> =
    \n    if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }
    \n}
    **\n * Creates a new read-only map by replacing or adding entries
  
```

to this map from a given array of key-value [pairs].

- \* The returned map preserves the entry iteration order of the original map.
- \* Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.

```

public operator fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V> = if
(this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }

```

- \* Creates a new read-only map by replacing or adding entries to this map from a given sequence of key-value [pairs].
- \* The returned map preserves the entry iteration order of the original map.
- \* Those [pairs] with unique keys are iterated in the end in the order of [pairs] sequence.

```

public operator fun <K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K, V>>): Map<K, V> =
LinkedHashMap(this).apply { putAll(pairs) }.optimizeReadOnlyMap()

```

- \* Creates a new read-only map by replacing or adding entries to this map from another [map].
- \* The returned map preserves the entry iteration order of the original map.
- \* Those entries of another [map] that are missing in this map are iterated in the end in the order of that [map].

```

public operator fun <K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V> =
LinkedHashMap(this).apply { putAll(map) }

```

- \* Appends or replaces the given [pair] in this mutable map.

```

@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pair: Pair<K, V>) {
put(pair.first, pair.second)
}

```

- \* Appends or replaces all pairs from the given collection of [pairs] in this mutable map.

```

@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Iterable<Pair<K, V>>) {
putAll(pairs)
}

```

- \* Appends or replaces all pairs from the given array of [pairs] in this mutable map.

```

@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs:
Array<out Pair<K, V>>) {
putAll(pairs)
}

```

- \* Appends or replaces all pairs from the given sequence of [pairs] in this mutable map.

```

@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {
putAll(pairs)
}

```

- \* Appends or replaces all entries from the given [map] in this mutable map.

```

@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {
putAll(map)
}

```

- \* Returns a map containing all entries of the original map except the entry with the given [key].
- \* The returned map preserves the entry iteration order of the original map.

```

@SinceKotlin("1.1")
public operator fun <K, V> Map<out K, V>.minus(key: K): Map<K, V> =
this.toMutableMap().apply { minusAssign(key) }
.optimizeReadOnlyMap()

```

- \* Returns a map containing all entries of the original map except those entries
- \* the keys of which are contained in the given [keys] collection.
- \* The returned map preserves the entry iteration order of the original map.

```

@SinceKotlin("1.1")
public operator fun <K, V> Map<out K, V>.minus(keys: Iterable<K>): Map<K, V> =
this.toMutableMap().apply { minusAssign(keys) }
.optimizeReadOnlyMap()

```

- \* Returns a map containing all entries of the original map except those entries
- \* the keys of which are contained in the given [keys] array.
- \* The returned map preserves the entry iteration order of the original map.

```

@SinceKotlin("1.1")
public operator fun <K, V> Map<out K, V>.minus(keys: Array<out K>): Map<K, V> =
this.toMutableMap().apply { minusAssign(keys) }
.optimizeReadOnlyMap()

```

- \* Returns a map containing all entries of the original map except those entries
- \* the keys of which are contained in the given [keys] sequence.
- \* The returned map preserves the entry iteration order of the original map.

```

@SinceKotlin("1.1")
public operator fun <K, V> Map<out K, V>.minus(keys: Sequence<K>): Map<K, V> =
this.toMutableMap().apply { minusAssign(keys) }
.optimizeReadOnlyMap()

```

- \* Removes the entry with the given [key] from this mutable map.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<K, V>.minusAssign(key: K) {
remove(key)
}

```

- \* Removes all entries the keys of which are contained in the given [keys] collection from this mutable map.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Iterable<K>) {
this.keys.removeAll(keys)
}

```

- \* Removes all entries the keys of which are contained in the given [keys] array from this mutable map.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Array<out K>) {
this.keys.removeAll(keys)
}

```

- \* Removes all entries from the keys of which are contained in the given [keys] sequence from this mutable map.



```

*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K,
V>.minusAssign(keys: Sequence<K>) {\n this.keys.removeAll(keys)\n}\n\n//
do not expose for now @PublishedApi\ninternal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size)
{\n 0 -> emptyMap()\n 1 -> toSingletonMapOrSelf()\n else -> this}\n\n"/*\n * Copyright 2010-2023
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SetsKt")\n@file:OptIn(kotlin.experimenta
l.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\n\ninternal object
EmptySet : Set<Nothing>, Serializable {\n private const val serialVersionUID: Long =
3406603774387020532\n\n override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()\n
override fun hashCode(): Int = 0\n\n override fun toString(): String = ""\n\n override val size: Int get() = 0\n
override fun isEmpty(): Boolean
= true\n\n override fun contains(element: Nothing): Boolean = false\n\n override fun containsAll(elements:
Collection<Nothing>): Boolean = elements.isEmpty()\n\n override fun iterator(): Iterator<Nothing> =
EmptyIterator\n\n private fun readResolve(): Any = EmptySet\n}\n\n/**\n * Returns an empty read-only set.
The returned set is serializable (JVM).\n * @sample samples.collections.Collections.Sets.emptyReadOnlySet\n
*\n\npublic fun <T> emptySet(): Set<T> = EmptySet\n\n/**\n * Returns a new read-only set with the given
elements.\n * Elements of the set are iterated in the order they were specified.\n * The returned set is serializable
(JVM).\n * @sample samples.collections.Collections.Sets.readOnlySet\n *\n\npublic fun <T> setOf(vararg elements:
T): Set<T> = if (elements.size > 0) elements.toSet() else emptySet()\n\n/**\n * Returns a new read-only set
containing only the specified object [element].\n * The returned set is serializable (JVM).\n * @sample
samples.collections.Collections.Sets.singletonReadOnlySet\n
*\n\n@SinceKotlin("1.9")\n\npublic expect fun <T> setOf(element: T): Set<T>\n\n/**\n * Returns an empty read-
only set. The returned set is serializable (JVM).\n * @sample
samples.collections.Collections.Sets.emptyReadOnlySet\n *\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <T>
setOf(): Set<T> = emptySet()\n\n/**\n * Returns an empty new [MutableSet].\n * The returned set preserves the
element iteration order.\n * @sample samples.collections.Collections.Sets.emptyMutableSet\n
*\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> mutableSetOf(): MutableSet<T> =
LinkedHashSet()\n\n/**\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are
iterated in the order they were specified.\n * @sample samples.collections.Collections.Sets.mutableSet\n *\n\npublic
fun <T> mutableSetOf(vararg elements: T): MutableSet<T> =
elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/** Returns
an empty new [HashSet]. *\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n\npublic inline fun <T>
hashSetOf(): HashSet<T> = HashSet()\n\n/** Returns a new [HashSet] with the given elements. *\n\npublic fun <T>
hashSetOf(vararg elements: T): HashSet<T> =
elements.toCollection(HashSet(mapCapacity(elements.size)))\n\n/** Returns an empty new [LinkedHashSet].\n
*\n * @sample samples.collections.Collections.Sets.emptyLinkedHashSet\n
*\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> linkedSetOf(): LinkedHashSet<T>
= LinkedHashSet()\n\n/**\n * Returns a new [LinkedHashSet] with the given elements.\n * Elements of the set are
iterated in the order they were specified.\n * @sample samples.collections.Collections.Sets.linkedHashSet\n
*\n\npublic fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> =
elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/** Returns a new read-only set either
with single given element, if it is not null,
or empty set if the element is null.\n * The returned set is serializable (JVM).\n * @sample
samples.collections.Collections.Sets.setOfNotNull\n *\n\n@SinceKotlin("1.4")\n\npublic fun <T : Any>
setOfNotNull(element: T?): Set<T> = if (element != null) setOf(element) else emptySet()\n\n/**\n * Returns a new
read-only set only with those given elements, that are not null.\n * Elements of the set are iterated in the order they
were specified.\n * The returned set is serializable (JVM).\n * @sample

```

```

samples.collections.Collections.Sets.setOfNotNull\n * \n @SinceKotlin("1.4")\n public fun <T : Any>
setOfNotNull(vararg elements: T?): Set<T> {\n    return elements.filterNotNullTo(LinkedHashSet())\n }\n\n /**\n *
Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n * and returning a read-
only set with the same elements.\n * \n * The set passed as a receiver to the [builderAction] is valid only inside that
function.\n * Using it outside of the function produces
an unspecified behavior.\n * \n * Elements of the set are iterated in the order they were added by the
[builderAction].\n * \n * The returned set is serializable (JVM).\n * \n * @sample
samples.collections.Builders.Sets.buildSetSample\n
*\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n @Su
ppress("DEPRECATION")\n public inline fun <E> buildSet(@BuilderInference builderAction: MutableSet<E>().() -
> Unit): Set<E> {\n    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return
buildSetInternal(builderAction)\n }\n\n @PublishedApi\n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n intern
al expect inline fun <E> buildSetInternal(builderAction: MutableSet<E>().() -> Unit): Set<E>\n\n /**\n * Builds a
new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n * and returning a read-only set
with the same elements.\n * \n * The set passed as a receiver to the [builderAction] is valid only inside that
function.\n * Using it outside of the function produces an unspecified behavior.\n * \n * [capacity] is used to hint the
expected number of elements added in the [builderAction].\n * \n * Elements of the set are iterated in the order they
were added by the [builderAction].\n * \n * The returned set is serializable (JVM).\n * \n * @throws
IllegalArgumentException if the given [capacity] is negative.\n * \n * @sample
samples.collections.Builders.Sets.buildSetSample\n
*\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n @Su
ppress("DEPRECATION")\n public inline fun <E> buildSet(capacity: Int, @BuilderInference builderAction:
MutableSet<E>().() -> Unit): Set<E> {\n    contract { callsInPlace(builderAction,
InvocationKind.EXACTLY_ONCE) }\n    return buildSetInternal(capacity,
builderAction)\n }\n\n @PublishedApi\n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n intern
al expect inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>().()
-> Unit): Set<E>\n\n /** Returns this Set if it's not `null` and the empty set otherwise.
*\n @kotlin.internal.InlineOnly\n public inline fun <T> Set<T>?.orEmpty(): Set<T> = this ?: emptySet()\n\n intern
al fun <T> Set<T>.optimizeReadOnlySet() = when (size) {\n    0 -> emptySet()\n    1 -> setOf(iterator().next())\n
else -> this\n }\n\n /**\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n // Auto-generated file. DO NOT EDIT!\n\n package kotlin.ranges\n\n /**\n * A range of values of type
`Char`.\n * \n * @public class CharRange(start: Char, endInclusive: Char) : CharProgression(start, endInclusive, 1),
ClosedRange<Char>, OpenEndRange<Char> {\n    override val start: Char get() = first\n    override val
endInclusive: Char get() = last\n    \n    @Deprecated("Can throw an exception when it's impossible to represent the
value
with Char type, for example, when the range includes MAX_VALUE. It's recommended to use 'endInclusive'
property that doesn't throw.")\n    @SinceKotlin("1.9")\n    @WasExperimental(ExperimentalStdlibApi::class)\n
override val endExclusive: Char get() {\n        if (last == Char.MAX_VALUE) error("Cannot return the exclusive
upper bound of a range that includes MAX_VALUE.")\n        return last + 1\n    }\n\n    override fun
contains(value: Char): Boolean = first <= value && value <= last\n\n    /**\n     * Checks whether the range is
empty.\n     * \n     * The range is empty if its start value is greater than the end value.\n     * \n     * @public override fun
isEmpty(): Boolean = first > last\n\n    override fun equals(other: Any?): Boolean =\n        other is CharRange &&
(isEmpty() && other.isEmpty()) ||\n        first == other.first && last == other.last\n\n    override fun hashCode(): Int
=\n        if (isEmpty()) -1 else (31 * first.code + last.code)\n\n    override fun toString():
String = "$first..$last"\n\n    companion object {\n        /** An empty range of values of type Char. *\n        public
val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())\n    }\n\n /**\n * A range of values of type `Int`.\n *
*\n @public class IntRange(start: Int, endInclusive: Int) : IntProgression(start, endInclusive, 1), ClosedRange<Int>,

```

```

OpenEndRange<Int> {
    override val start: Int get() = first
    override val endInclusive: Int get() = last
    @Deprecated("Can throw an exception when it's impossible to represent the value with Int type, for example, when the range includes MAX_VALUE. It's recommended to use 'endInclusive' property that doesn't throw.")
    @SinceKotlin("1.9")
    @WasExperimental(ExperimentalStdlibApi::class)
    override val endExclusive: Int get() {
        if (last == Int.MAX_VALUE) error("Cannot return the exclusive upper bound of a range that includes MAX_VALUE.")
        return last + 1
    }
    override fun contains(value: Int): Boolean = first <= value && value <= last
    /** Checks whether the range is empty. The range is empty if its start value is greater than the end value. */
    override fun isEmpty(): Boolean = first > last
    override fun equals(other: Any?): Boolean = other is IntRange && (isEmpty() && other.isEmpty() || first == other.first && last == other.last)
    override fun hashCode(): Int = if (isEmpty()) -1 else (31 * first + last)
    override fun toString(): String = "$first..$last"
    companion object {
        /** An empty range of values of type Int. */
        public val EMPTY: IntRange = IntRange(1, 0)
    }
}
/** A range of values of type `Long`. */
public class LongRange(start: Long, endInclusive: Long) : LongProgression(start, endInclusive, 1), ClosedRange<Long>, OpenEndRange<Long> {
    override val start: Long get() = first
    override val endInclusive: Long get() = last
    @Deprecated("Can throw an exception when it's impossible to represent the value with Long type, for example, when the range includes MAX_VALUE. It's recommended to use 'endInclusive' property that doesn't throw.")
    @SinceKotlin("1.9")
    @WasExperimental(ExperimentalStdlibApi::class)
    override val endExclusive: Long get() {
        if (last == Long.MAX_VALUE) error("Cannot return the exclusive upper bound of a range that includes MAX_VALUE.")
        return last + 1
    }
    override fun contains(value: Long): Boolean = first <= value && value <= last
    /** Checks whether the range is empty. The range is empty if its start value is greater than the end value. */
    override fun isEmpty(): Boolean = first > last
    override fun equals(other: Any?): Boolean = other is LongRange && (isEmpty() && other.isEmpty() || first == other.first && last == other.last)
    override fun hashCode(): Int = if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))).toInt()
    override fun toString(): String = "$first..$last"
    companion object {
        /** An empty range of values of type Long. */
        public val EMPTY: LongRange = LongRange(1, 0)
    }
}
/** Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. */
package kotlin.text
import kotlin.native.concurrent.SharedImmutable
private const val LOWER_CASE_HEX_DIGITS = "0123456789abcdef"
private const val UPPER_CASE_HEX_DIGITS = "0123456789ABCDEF"
// case-insensitive parsing
@SharedImmutable
private val HEX_DIGITS_TO_DECIMAL = IntArray(128) { -1 }.apply {
    LOWER_CASE_HEX_DIGITS.forEachIndexed { index, char -> this[char.code] = index }
    UPPER_CASE_HEX_DIGITS.forEachIndexed { index, char -> this[char.code] = index }
}
// ----- format and parse ByteArray -----
/** Formats bytes in this array using the specified [format]. Note that only [HexFormat.upperCase] and [HexFormat.BytesHexFormat] affect formatting. @param format the [HexFormat] to use for formatting, [HexFormat.Default] by default. @throws IllegalArgumentException if the result length is more than [String] maximum capacity. */
@ExperimentalStdlibApi
@SinceKotlin("1.9")
public fun ByteArray.toHexString(format: HexFormat = HexFormat.Default): String = toHexString(0, size, format)
/** Formats bytes in this array using the specified [HexFormat]. Note that only [HexFormat.upperCase] and [HexFormat.BytesHexFormat] affect formatting. @param startIndex the beginning (inclusive) of the subrange to format, 0 by default. @param endIndex the end (exclusive) of the subrange to format, size of this array by default. @param format the [HexFormat] to use for formatting, [HexFormat.Default] by default. @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this array indices. @throws IllegalArgumentException when `startIndex > endIndex`. @throws IllegalArgumentException if the result length is more than [String] maximum capacity. */
@ExperimentalStdlibApi
@SinceKotlin("1.9")
public fun

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ByteArray.toHexString(\n  startIndex: Int = 0,\n  endIndex: Int = size,\n  format: HexFormat =
HexFormat.Default)\n): String {\n  AbstractList.checkBoundsIndexes(startIndex, endIndex, size)\n\n  if (startIndex
== endIndex) {\n    return \"\"\n  }\n\n  val digits = if (format.upperCase) UPPER_CASE_HEX_DIGITS else
LOWER_CASE_HEX_DIGITS\n\n  val bytesFormat = format.bytes\n  val bytesPerLine =
bytesFormat.bytesPerLine\n  val bytesPerGroup = bytesFormat.bytesPerGroup\n  val bytePrefix =
bytesFormat.bytePrefix\n  val byteSuffix = bytesFormat.byteSuffix\n
  val byteSeparator = bytesFormat.byteSeparator\n  val groupSeparator = bytesFormat.groupSeparator\n\n  val
formatLength = formattedStringLength(\n    totalBytes = endIndex - startIndex,\n    bytesPerLine,\n
bytesPerGroup,\n    groupSeparator.length,\n    byteSeparator.length,\n    bytePrefix.length,\n
byteSuffix.length\n  )\n\n  var indexInLine = 0\n  var indexInGroup = 0\n\n  return buildString(formatLength)
{\n    for (i in startIndex until endIndex) {\n      val byte = this@toHexString[i].toInt() and 0xFF\n\n      if
(indexInLine == bytesPerLine) {\n        append("\\n")\n        indexInLine = 0\n        indexInGroup =
0\n      } else if (indexInGroup == bytesPerGroup) {\n        append(groupSeparator)\n
indexInGroup = 0\n      }\n      if (indexInGroup != 0) {\n        append(byteSeparator)\n      }\n\n
append(bytePrefix)\n
      append(digits[byte shr 4])\n      append(digits[byte and 0xF])\n      append(byteSuffix)\n\n
indexInGroup += 1\n      indexInLine += 1\n    }\n\n    check(formatLength == length)\n  }\n}\n\n//
Declared internal for testing\ninternal fun formattedStringLength(\n  totalBytes: Int,\n  bytesPerLine: Int,\n
bytesPerGroup: Int,\n  groupSeparatorLength: Int,\n  byteSeparatorLength: Int,\n  bytePrefixLength: Int,\n
byteSuffixLength: Int\n): Int {\n  require(totalBytes > 0) // By contract bytesPerLine and bytesPerGroup are >
0\n\n  val lineSeparators = (totalBytes - 1) / bytesPerLine\n  val groupSeparators = run {\n    val
groupSeparatorsPerLine = (bytesPerLine - 1) / bytesPerGroup\n    val bytesInLastLine = (totalBytes %
bytesPerLine).let { if (it == 0) bytesPerLine else it }\n    val groupSeparatorsInLastLine = (bytesInLastLine - 1) /
bytesPerGroup\n    lineSeparators * groupSeparatorsPerLine + groupSeparatorsInLastLine\n
  }\n\n  val byteSeparators = totalBytes - 1 - lineSeparators - groupSeparators\n\n  // The max totalLength is
achieved when\n  // totalBytes, bytePrefix/Suffix/Separator.length = Int.MAX_VALUE.\n  // The result is 3 *
Int.MAX_VALUE * Int.MAX_VALUE + Int.MAX_VALUE,\n  // which is > Long.MAX_VALUE, but <
ULong.MAX_VALUE.\n\n  val totalLength: Long = lineSeparators.toLong() /* * lineSeparator.length = 1 */ +\n
  groupSeparators.toLong() * groupSeparatorLength.toLong() +\n  byteSeparators.toLong() *
byteSeparatorLength.toLong() +\n  totalBytes.toLong() * (bytePrefixLength.toLong() + 2L +
byteSuffixLength.toLong())\n\n  if (totalLength !in 0..Int.MAX_VALUE) {\n    // TODO: Common
OutOfMemoryError?\n    throw IllegalArgumentException("The resulting string length is too big:
${totalLength.toULong()}")\n  }\n\n  return totalLength.toInt()\n}\n\n/**\n * Parses bytes from this string using
the specified [HexFormat].\n */
Note that only [HexFormat.BytesHexFormat] affects parsing,\n * and parsing is performed in case-insensitive
manner.\n * Also, any of the char sequences CRLF, LF and CR is considered a valid line separator.\n * @param
format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n * @throws
IllegalArgumentExcepion if this string does not comply with the specified [format].\n
*\n * @ExperimentalStdlibApi\n * @SinceKotlin("1.9")\n public fun String.hexToByteArray(format: HexFormat =
HexFormat.Default): ByteArray = hexToByteArray(0, length, format)\n\n/**\n * Parses bytes from this string using
the specified [HexFormat].\n * Note that only [HexFormat.BytesHexFormat] affects parsing,\n * and parsing is
performed in case-insensitive manner.\n * Also, any of the char sequences CRLF, LF and CR is considered a valid
line separator.\n * @param startIndex the beginning (inclusive) of the substring to parse, 0 by default.\n *
@param endIndex the end (exclusive) of the substring
to parse, length of this string by default.\n * @param format the [HexFormat] to use for parsing,
[HexFormat.Default] by default.\n * @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is
out of range of this string indices.\n * @throws IllegalArgumentException when `startIndex > endIndex`.\n *
@throws IllegalArgumentException if the substring does not comply with the specified [format].\n

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*\n@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\nprivate fun String.hexToByteArray(\n    startIndex: Int = 0,\n    endIndex: Int = length,\n    format: HexFormat = HexFormat.Default): ByteArray {\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n    if (startIndex == endIndex) {\n        return\n        arrayOf()\n    }\n    val bytesFormat = format.bytes\n    val bytesPerLine = bytesFormat.bytesPerLine\n    val bytesPerGroup = bytesFormat.bytesPerGroup\n    val bytePrefix = bytesFormat.bytePrefix\n    val byteSuffix = bytesFormat.byteSuffix\n    val byteSeparator = bytesFormat.byteSeparator\n    val groupSeparator = bytesFormat.groupSeparator\n    val resultCapacity =\n        parsedByteArrayMaxSize(\n            stringLength = endIndex - startIndex,\n            bytesPerLine,\n            bytesPerGroup,\n            groupSeparator.length,\n            byteSeparator.length,\n            bytePrefix.length,\n            byteSuffix.length)\n    val result = ByteArray(resultCapacity)\n    var i = startIndex\n    var byteIndex = 0\n    var indexInLine = 0\n    var indexInGroup = 0\n    while (i < endIndex) {\n        if (indexInLine == bytesPerLine) {\n            i =\n            checkNewLineAt(i, endIndex)\n            indexInLine = 0\n            indexInGroup = 0\n        } else if (indexInGroup == bytesPerGroup) {\n            i = checkContainsAt(groupSeparator, i, endIndex, "group separator")\n            indexInGroup = 0\n        } else if (indexInGroup != 0) {\n            i = checkContainsAt(byteSeparator, i, endIndex, "byte separator")\n        }\n        indexInLine += 1\n        indexInGroup += 1\n        i = checkContainsAt(bytePrefix, i, endIndex, "byte prefix")\n        checkHexLength(i, (i + 2).coerceAtMost(endIndex), maxDigits = 2, requireMaxLength = true)\n        result[byteIndex++] = ((decimalFromHexDigitAt(i++) shl 4) or decimalFromHexDigitAt(i++)).toByte()\n        i = checkContainsAt(byteSuffix, i, endIndex, "byte suffix")\n    }\n    return if (byteIndex == result.size) result else\n        result.copyOf(byteIndex)\n}\n\n// Declared internal for testing\ninternal fun parsedByteArrayMaxSize(\n    stringLength: Int,\n    bytesPerLine: Int,\n    bytesPerGroup: Int,\n    groupSeparatorLength: Int,\n    byteSeparatorLength: Int,\n    bytePrefixLength: Int,\n    byteSuffixLength: Int): Int {\n    require(stringLength > 0)\n    // By contract bytesPerLine and bytesPerGroup are > 0\n    // The max charsPerSet is achieved when\n    // bytesPerLine/Group, bytePrefix/Suffix/SeparatorLength = Int.MAX_VALUE.\n    // The result is 3\n    * Int.MAX_VALUE * Int.MAX_VALUE + Int.MAX_VALUE,\n    // which is > Long.MAX_VALUE, but < ULong.MAX_VALUE.\n    val charsPerByte = bytePrefixLength + 2L + byteSuffixLength\n    val charsPerGroup = charsPerSet(charsPerByte, bytesPerGroup, byteSeparatorLength)\n    val charsPerLine = if (bytesPerLine <= bytesPerGroup) {\n        charsPerSet(charsPerByte, bytesPerLine, byteSeparatorLength)\n    } else {\n        val groupsPerLine = bytesPerLine / bytesPerGroup\n        var result = charsPerSet(charsPerGroup, groupsPerLine, groupSeparatorLength)\n        val bytesPerLastGroupInLine = bytesPerLine % bytesPerGroup\n        if (bytesPerLastGroupInLine != 0) {\n            result += groupSeparatorLength\n            result +=\n            charsPerSet(charsPerByte, bytesPerLastGroupInLine, byteSeparatorLength)\n        }\n        result\n    }\n    val numberOfChars = stringLength.toLong()\n    // assume one-character line separator to maximize size\n    val wholeLines = wholeElementsPerSet(numberOfChars, charsPerLine, 1)\n    numberOfChars -= wholeLines * (charsPerLine + 1)\n    val wholeGroupsInLastLine =\n        wholeElementsPerSet(numberOfChars, charsPerGroup, groupSeparatorLength)\n    numberOfChars -=\n        wholeGroupsInLastLine * (charsPerGroup + groupSeparatorLength)\n    val wholeBytesInLastGroup =\n        wholeElementsPerSet(numberOfChars, charsPerByte, byteSeparatorLength)\n    numberOfChars -=\n        wholeBytesInLastGroup * (charsPerByte + byteSeparatorLength)\n    // If numberOfChars is bigger than zero here:\n    // * CRLF might have been used as line separator\n    // * or there are dangling characters at the end of string\n    // Anyhow, have a spare capacity to let parsing continue.\n    // In case of dangling characters it will throw later on with a correct message.\n    val spare = if (numberOfChars > 0L) 1 else 0\n    // The number of parsed bytes will always fit into Int, each parsed byte consumes at least 2 chars of the input string.\n    return ((wholeLines * bytesPerLine) + (wholeGroupsInLastLine * bytesPerGroup) + wholeBytesInLastGroup + spare).toInt()\n}\n\nprivate fun charsPerSet(charsPerElement: Long, elementsPerSet: Int, elementSeparatorLength: Int): Long {\n    require(elementsPerSet > 0)\n    return (charsPerElement * elementsPerSet) + (elementSeparatorLength * (elementsPerSet - 1L))\n}\n\nprivate fun wholeElementsPerSet(charsPerSet: Long, charsPerElement: Long,

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elementSeparatorLength: Int): Long {
    return if (charsPerSet <= 0 || charsPerElement <= 0) 0
    else
        (charsPerSet + elementSeparatorLength) / (charsPerElement + elementSeparatorLength)
}

private fun
String.checkNewLineAt(index: Int, endIndex: Int): Int {
    return if (this[index] == '\r') {
        if (index + 1 <
            endIndex && this[index + 1] == '\n') index + 2
        else index + 1
    } else if (this[index] == '\n') {
        index + 1
    } else {
        throw NumberFormatException("Expected a new line at index $index, but was ${this[index]}")
    }
}

// -----
format and parse Byte -----
/n/**
 * Formats this `Byte` value using the specified [format].
 * Note that only [HexFormat.upperCase] and [HexFormat.NumberHexFormat] affect formatting.
 * @param
 * format the [HexFormat] to use for formatting, [HexFormat.Default] by default.
/n
 * /n @ExperimentalStdlibApi
/n @SinceKotlin("1.9")
npublic fun Byte.toHexString(format: HexFormat =
HexFormat.Default): String = toLong().toHexStringImpl(format, bits = 8)
/n/**
 * Parses a `Byte` value from this
string using the specified [format].
/n * Note that only [HexFormat.NumberHexFormat] affects parsing,
/n * and
parsing is performed in case-insensitive manner.
/n * @param format the [HexFormat] to use for parsing,
[HexFormat.Default] by default.
/n * @throws IllegalArgumentException if this string does not comply with the
specified [format].
/n * /n @ExperimentalStdlibApi
/n @SinceKotlin("1.9")
npublic fun String.hexToByte(format:
HexFormat = HexFormat.Default):
Byte = hexToByte(0, length, format)
/n/**
 * Parses a `Byte` value from this string using the specified
[format].
/n * Note that only [HexFormat.NumberHexFormat] affects parsing,
/n * and parsing is performed in
case-insensitive manner.
/n * @param startIndex the beginning (inclusive) of the substring to parse, 0 by
default.
/n * @param endIndex the end (exclusive) of the substring to parse, length of this string by default.
/n *
@param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.
/n * @throws
IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this string indices.
/n * @throws
IllegalArgumentException when `startIndex > endIndex`.
/n * @throws IllegalArgumentException if the substring
does not comply with the specified [format].
/n * /n @ExperimentalStdlibApi
/n // @SinceKotlin("1.9")
nprivate fun
String.hexToByte(startIndex: Int = 0, endIndex: Int = length, format: HexFormat = HexFormat.Default): Byte =
hexToLongImpl(startIndex,
endIndex, format, maxDigits = 2).toByte()
/n// ----- format and parse Short -----
/n/**
 * Formats this `Short` value using the specified [format].
 * Note that only [HexFormat.upperCase]
and [HexFormat.NumberHexFormat] affect formatting.
/n * @param format the [HexFormat] to use for
formatting, [HexFormat.Default] by default.
/n * /n @ExperimentalStdlibApi
/n @SinceKotlin("1.9")
npublic fun
Short.toHexString(format: HexFormat = HexFormat.Default): String = toLong().toHexStringImpl(format, bits =
16)
/n/**
 * Parses a `Short` value from this string using the specified [format].
/n * Note that only
[HexFormat.NumberHexFormat] affects parsing,
/n * and parsing is performed in case-insensitive manner.
/n *
@param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.
/n * @throws
IllegalArgumentException if this string does not comply with the specified [format].
/n
* /n @ExperimentalStdlibApi
/n @SinceKotlin("1.9")
npublic
fun String.hexToShort(format: HexFormat = HexFormat.Default): Short = hexToShort(0, length, format)
/n/**
 * Parses a `Short` value from this string using the specified [format].
/n * Note that only
[HexFormat.NumberHexFormat] affects parsing,
/n * and parsing is performed in case-insensitive manner.
/n *
@param startIndex the beginning (inclusive) of the substring to parse, 0 by default.
/n * @param endIndex the end
(exclusive) of the substring to parse, length of this string by default.
/n * @param format the [HexFormat] to use for
parsing, [HexFormat.Default] by default.
/n * @throws IndexOutOfBoundsException when [startIndex] or
[endIndex] is out of range of this string indices.
/n * @throws IllegalArgumentException when `startIndex >
endIndex`.
/n * @throws IllegalArgumentException if the substring does not comply with the specified [format].
/n
* /n @ExperimentalStdlibApi
/n // @SinceKotlin("1.9")
nprivate fun String.hexToShort(startIndex: Int
= 0, endIndex: Int = length, format: HexFormat = HexFormat.Default): Short =
hexToLongImpl(startIndex,
endIndex, format, maxDigits = 4).toShort()
/n// ----- format and parse Int -----
/n/**
 * Formats this `Int` value using the specified [format].
 * Note that only [HexFormat.upperCase] and

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[HexFormat.NumberHexFormat] affect formatting.\n *\n * @param format the [HexFormat] to use for formatting,
[HexFormat.Default] by default.\n *\n @ExperimentalStdlibApi\n @SinceKotlin("1.9")\n public fun
Int.toHexString(format: HexFormat = HexFormat.Default): String = toLong().toHexStringImpl(format, bits =
32)\n\n/**\n * Parses an `Int` value from this string using the specified [format].\n *\n * Note that only
[HexFormat.NumberHexFormat] affects parsing,\n * and parsing is performed in case-insensitive manner.\n *\n *
@param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n *\n * @throws
IllegalArgumentException if
this string does not comply with the specified [format].\n
*\n @ExperimentalStdlibApi\n @SinceKotlin("1.9")\n public fun String.hexToInt(format: HexFormat =
HexFormat.Default): Int = hexToInt(0, length, format)\n\n/**\n * Parses an `Int` value from this string using the
specified [format].\n *\n * Note that only [HexFormat.NumberHexFormat] affects parsing,\n * and parsing is
performed in case-insensitive manner.\n *\n * @param startIndex the beginning (inclusive) of the substring to parse,
0 by default.\n *\n * @param endIndex the end (exclusive) of the substring to parse, length of this string by default.\n
*\n * @param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n *\n * @throws
IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this string indices.\n *\n * @throws
IllegalArgumentException when `startIndex > endIndex`.\n *\n * @throws IllegalArgumentException if the substring
does not comply with the specified [format].\n *\n @ExperimentalStdlibApi\n // @SinceKotlin("1.9")\n private
fun String.hexToInt(startIndex: Int = 0, endIndex: Int = length, format: HexFormat = HexFormat.Default): Int =\n
hexToLongImpl(startIndex, endIndex, format, maxDigits = 8).toInt()\n\n// ----- format and parse
Long -----\n\n/**\n * Formats this `Long` value using the specified [format].\n *\n * Note that only
[HexFormat.upperCase] and [HexFormat.NumberHexFormat] affect formatting.\n *\n * @param format the
[HexFormat] to use for formatting, [HexFormat.Default] by default.\n
*\n @ExperimentalStdlibApi\n @SinceKotlin("1.9")\n public fun Long.toHexString(format: HexFormat =
HexFormat.Default): String = toHexStringImpl(format, bits = 64)\n\n/**\n * Parses a `Long` value from this string
using the specified [format].\n *\n * Note that only [HexFormat.NumberHexFormat] affects parsing,\n * and parsing
is performed in case-insensitive manner.\n *\n * @param format the [HexFormat] to use for parsing,
[HexFormat.Default]
by default.\n *\n * @throws IllegalArgumentException if this string does not comply with the specified [format].\n
*\n @ExperimentalStdlibApi\n @SinceKotlin("1.9")\n public fun String.hexToLong(format: HexFormat =
HexFormat.Default): Long = hexToLong(0, length, format)\n\n/**\n * Parses a `Long` value from this string using
the specified [format].\n *\n * Note that only [HexFormat.NumberHexFormat] affects parsing,\n * and parsing is
performed in case-insensitive manner.\n *\n * @param startIndex the beginning (inclusive) of the substring to parse,
0 by default.\n *\n * @param endIndex the end (exclusive) of the substring to parse, length of this string by default.\n
*\n * @param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n *\n * @throws
IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this string indices.\n *\n * @throws
IllegalArgumentException when `startIndex > endIndex`.\n *\n * @throws IllegalArgumentException if the substring
does not comply with the specified [format].\n *\n @ExperimentalStdlibApi\n // @SinceKotlin("1.9")\n private fun
String.hexToLong(startIndex: Int = 0, endIndex: Int = length, format: HexFormat = HexFormat.Default): Long =\n
hexToLongImpl(startIndex, endIndex, format, maxDigits = 16)\n\n// ----- private format and parse
functions -----\n\n @ExperimentalStdlibApi\n private fun Long.toHexStringImpl(format:
HexFormat, bits: Int): String {\n     require(bits and 0x3 == 0)\n     val digits = if (format.upperCase)
UPPER_CASE_HEX_DIGITS else LOWER_CASE_HEX_DIGITS\n     val value = this\n     val prefix =
format.number.prefix\n     val suffix = format.number.suffix\n     val formatLength = prefix.length + (bits shr 2) +
suffix.length\n     var removeZeros = format.number.removeLeadingZeros\n     return buildString(formatLength)
{\n         append(prefix)\n         var shift = bits\n         while (shift > 0) {\n             shift -= 4\n             val decimal
= ((value shr shift) and 0xF).toInt()\n             removeZeros = removeZeros && decimal == 0 && shift > 0\n
if (!removeZeros) {\n                 append(digits[decimal])\n             }\n         }\n         append(suffix)\n
}\n }\n\n @ExperimentalStdlibApi\n private fun String.hexToLongImpl(startIndex: Int = 0, endIndex: Int = length,

```





```

Int.MIN_VALUE\n    } else if (firstChar == '+') {\n        isNegative = false\n        limit = -
Int.MAX_VALUE\n    } else\n        return null\n    } else {\n        start = 0\n        isNegative = false\n        limit
= -Int.MAX_VALUE\n    }\n\n    val limitForMaxRadix = (-Int.MAX_VALUE) / 36\n    var limitBeforeMul =
limitForMaxRadix\n    var result = 0\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n\n
if (digit < 0) return null\n\n        if (result < limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul
= limit / radix\n\n                if (result < limitBeforeMul) {\n                    return null\n                }\n            } else {\n
                return null\n            }\n\n            result *= radix\n\n            if (result < limit + digit) return null\n\n
result -= digit\n        }\n\n        return if (isNegative) result else -result\n    }\n\n    * Parses the string as a [Long] number
and returns the result\n    * or `null` if the string is not a valid representation of a number.\n\n
*/\n\n    @SinceKotlin("1.1")\n    public fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)\n\n    * Parses
the string as a [Long] number and returns the result\n    * or `null` if the string is not a valid representation of a
number.\n    * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion.\n\n    */\n\n    @SinceKotlin("1.1")\n    public
fun String.toLongOrNull(radix: Int): Long? {\n        checkRadix(radix)\n\n        val length = this.length\n        if (length ==
0) return null\n\n        val start: Int\n        val isNegative: Boolean\n        val limit: Long\n\n        val firstChar = this[0]\n        if
(firstChar < '0') { // Possible leading sign\n            if (length == 1) return null // non-digit (possible sign) only, no
digits after\n\n            start = 1\n\n            if (firstChar == '-') {\n                isNegative = true\n                limit =
Long.MIN_VALUE\n            } else if (firstChar == '+') {\n                isNegative = false\n                limit = -
Long.MAX_VALUE\n            } else\n                return null\n        } else {\n            start = 0\n            isNegative = false\n
            limit = -Long.MAX_VALUE\n        }\n\n        val limitForMaxRadix = (-Long.MAX_VALUE) / 36\n        var
limitBeforeMul = limitForMaxRadix\n        var result = 0L\n        for (i in start until length) {\n            val digit =
digitOf(this[i], radix)\n\n            if (digit < 0) return null\n\n            if (result < limitBeforeMul) {\n                if (limitBeforeMul == limitForMaxRadix) {\n                    limitBeforeMul
= limit / radix\n\n                    if (result < limitBeforeMul) {\n                        return null\n                    }\n                } else {\n
                    return null\n                }\n\n                result *= radix\n\n                if (result < limit + digit) return null\n\n
result -= digit\n            }\n\n            return if (isNegative) result else -result\n        }\n\n        internal fun numberFormatError(input:
String): Nothing = throw NumberFormatException("Invalid number format: '$input')\n", "/*\n    * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n    * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n    */\n\n    package kotlin.time\n\n    import
kotlin.contracts.*\n    import kotlin.jvm.JvmInline\n    import kotlin.math.*\n\n    /**\n    * Represents the amount of time one
instant of time is
away from another instant.\n    * A negative duration is possible in a situation when the second instant is earlier
than the first one.\n    * The type can store duration values up to 00b1146 years with nanosecond precision,\n    * and up to 00b1146 million years with millisecond precision.\n    * If a duration-returning operation provided in
`kotlin.time` produces a duration value that doesn't fit into the above range,\n    * the returned `Duration` is infinite.\n\n
    * An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.\n    * To
construct a duration use either the extension function [toDuration],\n    * or the extension properties [hours],
[minutes], [seconds], and so on,\n    * available on [Int], [Long], and [Double] numeric types.\n    * To get the value
of this duration expressed in a particular [duration units][DurationUnit]\n    * use the functions [toInt], [toLong], and
[toDouble]\n    * or the properties [inWholeHours], [inWholeMinutes], [inWholeSeconds],
[inWholeNanoseconds], and so on.\n\n
    */\n\n    @SinceKotlin("1.6")\n    @WasExperimental(ExperimentalTime::class)\n    @JvmInline\n    public value class
Duration internal constructor(private val rawValue: Long) : Comparable<Duration> {\n        private val value: Long
get() = rawValue shr 1\n        private inline val unitDiscriminator: Int get() = rawValue.toInt() and 1\n        private fun
isInNanos() = unitDiscriminator == 0\n        private fun isInMillis() = unitDiscriminator == 1\n        private val
storageUnit get() = if (isInNanos()) DurationUnit.NANOSECONDS else DurationUnit.MILLISECONDS\n\n        init
{\n            if (durationAssertionsEnabled) {\n                if (isInNanos()) {\n                    if (value !in -

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MAX_NANOS..MAX_NANOS) throw AssertionError("\$value ns is out of nanoseconds range")\n    } else
{\n    if (value !in -MAX_MILLIS..MAX_MILLIS) throw AssertionError("\$value ms is out of milliseconds
range")\n    if (value in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS)
throw AssertionError("\$value ms is denormalized")\n    }\n    }\n\n    companion object {\n    /**
The duration equal to exactly 0 seconds. */\n    public val ZERO: Duration = Duration(0L)\n\n    /** The
duration whose value is positive infinity. It is useful for representing timeouts that should never expire. */\n
public val INFINITE: Duration = durationOfMillis(MAX_MILLIS)\n    internal val NEG_INFINITE: Duration =
durationOfMillis(-MAX_MILLIS)\n\n    /** Converts the given time duration [value] expressed in the specified
[sourceUnit] into the specified [targetUnit]. */\n    @ExperimentalTime\n    public fun convert(value: Double,
sourceUnit: DurationUnit, targetUnit: DurationUnit): Double =\n        convertDurationUnit(value, sourceUnit,
targetUnit)\n\n    // Duration construction extension properties in Duration companion scope\n\n    /** Returns a
[Duration] equal to this [Int] number of nanoseconds. */\n    @kotlin.internal.InlineOnly\n
public inline val Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n    /** Returns a
[Duration] equal to this [Long] number of nanoseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val
Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n    /**\n    * Returns a [Duration]
equal to this [Double] number of nanoseconds.\n    *\n    * Depending on its magnitude, the value is rounded
to an integer number of nanoseconds or milliseconds.\n    *\n    * @throws IllegalArgumentException if this
[Double] value is `NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public inline val Double.nanoseconds
get() = toDuration(DurationUnit.NANOSECONDS)\n\n    /** Returns a [Duration] equal to this [Int] number of
microseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Int.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n\n    /**
Returns a [Duration] equal to this [Long] number of microseconds. */\n    @kotlin.internal.InlineOnly\n
public inline val Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n    /**\n    *
Returns a [Duration] equal to this [Double] number of microseconds.\n    *\n    * Depending on its magnitude,
the value is rounded to an integer number of nanoseconds or milliseconds.\n    *\n    * @throws
IllegalArgumentException if this [Double] value is `NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public
inline val Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n    /** Returns a
[Duration] equal to this [Int] number of milliseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val
Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n    /** Returns a [Duration] equal to this
[Long] number of milliseconds. */\n    @kotlin.internal.InlineOnly\n    public
inline val Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n    /**\n    * Returns a
[Duration] equal to this [Double] number of milliseconds.\n    *\n    * Depending on its magnitude, the value
is rounded to an integer number of nanoseconds or milliseconds.\n    *\n    * @throws
IllegalArgumentException if this [Double] value is `NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public
inline val Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n    /** Returns a
[Duration] equal to this [Int] number of seconds. */\n    @kotlin.internal.InlineOnly\n    public inline val
Int.seconds get() = toDuration(DurationUnit.SECONDS)\n\n    /** Returns a [Duration] equal to this [Long]
number of seconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.seconds get() =
toDuration(DurationUnit.SECONDS)\n\n    /**\n    * Returns a [Duration] equal to this [Double] number
of seconds.\n    *\n    * Depending on its magnitude, the value is rounded to an integer number of
nanoseconds or milliseconds.\n    *\n    * @throws IllegalArgumentException if this [Double] value is
`NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public inline val Double.seconds get() =
toDuration(DurationUnit.SECONDS)\n\n    /** Returns a [Duration] equal to this [Int] number of minutes. */\n
    @kotlin.internal.InlineOnly\n    public inline val Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n
    /** Returns a [Duration] equal to this [Long] number of minutes. */\n    @kotlin.internal.InlineOnly\n
public inline val Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n    /**\n    * Returns a
[Duration] equal to this [Double] number of minutes.\n    *\n    * Depending on its magnitude, the value is
rounded to an integer number of nanoseconds or milliseconds.\n    *\n    * @throws

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IllegalArgumentException if this [Double] value is `NaN`.
    *^@kotlin.internal.InlineOnly public
inline val Double.minutes get() = toDuration(DurationUnit.MINUTES)
    /** Returns a [Duration] equal to
this [Int] number of hours.
    *^@kotlin.internal.InlineOnly public inline val Int.hours get() =
toDuration(DurationUnit.HOURS)
    /** Returns a [Duration] equal to this [Long] number of hours.
    *^@kotlin.internal.InlineOnly public inline val Long.hours get() = toDuration(DurationUnit.HOURS)
    /**
    * Returns a [Duration] equal to this [Double] number of hours.
    *^ Depending on its
magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.
    *^ @throws
IllegalArgumentException if this [Double] value is `NaN`.
    *^@kotlin.internal.InlineOnly public
inline val Double.hours get() = toDuration(DurationUnit.HOURS)
    /** Returns a [Duration] equal to this [Int] number of days.
    *^@kotlin.internal.InlineOnly public
inline val Int.days get() = toDuration(DurationUnit.DAYS)
    /** Returns a [Duration] equal to this [Long]
number of days.
    *^@kotlin.internal.InlineOnly public inline val Long.days get() =
toDuration(DurationUnit.DAYS)
    /**
    * Returns a [Duration] equal to this [Double] number of days.
    *^
    * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or
milliseconds.
    *^ @throws IllegalArgumentException if this [Double] value is `NaN`.
    *^@kotlin.internal.InlineOnly public inline val Double.days get() = toDuration(DurationUnit.DAYS)
// deprecated static factory functions
    /** Returns a [Duration] representing the specified [value] number of
nanoseconds.
    *^@SinceKotlin("1.5")
    @ExperimentalTime @Deprecated("Use 'Int.nanoseconds' extension property from
Duration.Companion instead.", ReplaceWith("value.nanoseconds",
"kotlin.time.Duration.Companion.nanoseconds"))
    @DeprecatedSinceKotlin(warningSince = "1.6",
errorSince = "1.8", hiddenSince = "1.9")
    public fun nanoseconds(value: Int): Duration =
value.toDuration(DurationUnit.NANOSECONDS)
    /** Returns a [Duration] representing the specified
[value] number of nanoseconds.
    *^@SinceKotlin("1.5")
    @ExperimentalTime
    @Deprecated("Use 'Long.nanoseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.nanoseconds", "kotlin.time.Duration.Companion.nanoseconds"))
    @DeprecatedSinceKotlin(warningSince = "1.6", errorSince = "1.8", hiddenSince = "1.9")
    public fun
nanoseconds(value: Long): Duration = value.toDuration(DurationUnit.NANOSECONDS)
    /**
    * Returns a [Duration] representing
the specified [value] number of nanoseconds.
    *^ @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.
    *^@SinceKotlin("1.5")
    @ExperimentalTime
    @Deprecated("Use 'Double.nanoseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.nanoseconds", "kotlin.time.Duration.Companion.nanoseconds"))
    @DeprecatedSinceKotlin(warningSince = "1.6", errorSince = "1.8", hiddenSince = "1.9")
    public fun
nanoseconds(value: Double): Duration = value.toDuration(DurationUnit.NANOSECONDS)
    /** Returns a
[Duration] representing the specified [value] number of microseconds.
    *^@SinceKotlin("1.5")
    @ExperimentalTime
    @Deprecated("Use 'Int.microseconds' extension property from Duration.Companion
instead.", ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))
    @DeprecatedSinceKotlin(warningSince
= "1.6", errorSince = "1.8", hiddenSince = "1.9")
    public fun microseconds(value: Int): Duration =
value.toDuration(DurationUnit.MICROSECONDS)
    /** Returns a [Duration] representing the specified
[value] number of microseconds.
    *^@SinceKotlin("1.5")
    @ExperimentalTime
    @Deprecated("Use 'Long.microseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))
    @DeprecatedSinceKotlin(warningSince = "1.6", errorSince = "1.8", hiddenSince = "1.9")
    public fun
microseconds(value: Long): Duration = value.toDuration(DurationUnit.MICROSECONDS)
    /**
    * Returns a [Duration] representing the specified [value] number of microseconds.
    *^ @throws
IllegalArgumentException if the provided `Double` [value] is `NaN`.
    *^@SinceKotlin("1.5")

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@ExperimentalTime\n    @Deprecated("Use
'Double.microseconds' extension property from Duration.Companion instead.\",
ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6", errorSince = "1.8", hiddenSince = "1.9")\n    public fun
microseconds(value: Double): Duration = value.toDuration(DurationUnit.MICROSECONDS)\n\n    /** Returns
a [Duration] representing the specified [value] number of milliseconds. */\n    @SinceKotlin("1.5")\n
@ExperimentalTime\n    @Deprecated("Use 'Int.milliseconds' extension property from Duration.Companion
instead.\", ReplaceWith("value.milliseconds", "kotlin.time.Duration.Companion.milliseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6", errorSince = "1.8", hiddenSince = "1.9")\n    public fun
milliseconds(value: Int): Duration = value.toDuration(DurationUnit.MILLISECONDS)\n\n    /** Returns a
[Duration] representing the specified [value]
number of milliseconds. */\n    @SinceKotlin("1.5")\n    @ExperimentalTime\n    @Deprecated("Use
'Long.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith("value.milliseconds",
"kotlin.time.Duration.Companion.milliseconds"))\n    @DeprecatedSinceKotlin(warningSince = "1.6",
errorSince = "1.8", hiddenSince = "1.9")\n    public fun milliseconds(value: Long): Duration =
value.toDuration(DurationUnit.MILLISECONDS)\n\n    /**\n    * Returns a [Duration] representing the
specified [value] number of milliseconds.\n    *\n    * @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.\n    */\n    @SinceKotlin("1.5")\n    @ExperimentalTime\n
@Deprecated("Use 'Double.milliseconds' extension property from Duration.Companion instead.\",
ReplaceWith("value.milliseconds", "kotlin.time.Duration.Companion.milliseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6",
errorSince = "1.8", hiddenSince = "1.9")\n    public fun milliseconds(value: Double): Duration =
value.toDuration(DurationUnit.MILLISECONDS)\n\n    /** Returns a [Duration] representing the specified
[value] number of seconds. */\n    @SinceKotlin("1.5")\n    @ExperimentalTime\n    @Deprecated("Use
'Int.seconds' extension property from Duration.Companion instead.\", ReplaceWith("value.seconds",
"kotlin.time.Duration.Companion.seconds"))\n    @DeprecatedSinceKotlin(warningSince = "1.6", errorSince =
"1.8", hiddenSince = "1.9")\n    public fun seconds(value: Int): Duration =
value.toDuration(DurationUnit.SECONDS)\n\n    /** Returns a [Duration] representing the specified [value]
number of seconds. */\n    @SinceKotlin("1.5")\n    @ExperimentalTime\n    @Deprecated("Use
'Long.seconds' extension property from Duration.Companion instead.\", ReplaceWith("value.seconds",
"kotlin.time.Duration.Companion.seconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6", errorSince = "1.8", hiddenSince = "1.9")\n    public fun
seconds(value: Long): Duration = value.toDuration(DurationUnit.SECONDS)\n\n    /**\n    * Returns a
[Duration] representing the specified [value] number of seconds.\n    *\n    * @throws
IllegalArgumentException if the provided `Double` [value] is `NaN`.\n    */\n    @SinceKotlin("1.5")\n
@ExperimentalTime\n    @Deprecated("Use 'Double.seconds' extension property from Duration.Companion
instead.\", ReplaceWith("value.seconds", "kotlin.time.Duration.Companion.seconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6", errorSince = "1.8", hiddenSince = "1.9")\n    public fun
seconds(value: Double): Duration = value.toDuration(DurationUnit.SECONDS)\n\n    /** Returns a [Duration]
representing the specified [value] number of minutes. */\n    @SinceKotlin("1.5")\n    @ExperimentalTime\n
@Deprecated("Use
'Int.minutes' extension property from Duration.Companion instead.\", ReplaceWith("value.minutes",
"kotlin.time.Duration.Companion.minutes"))\n    @DeprecatedSinceKotlin(warningSince = "1.6", errorSince =
"1.8", hiddenSince = "1.9")\n    public fun minutes(value: Int): Duration =
value.toDuration(DurationUnit.MINUTES)\n\n    /** Returns a [Duration] representing the specified [value]
number of minutes. */\n    @SinceKotlin("1.5")\n    @ExperimentalTime\n    @Deprecated("Use
'Long.minutes' extension property from Duration.Companion instead.\", ReplaceWith("value.minutes",
"kotlin.time.Duration.Companion.minutes"))\n    @DeprecatedSinceKotlin(warningSince = "1.6", errorSince =

```

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\"1.8\", hiddenSince = \"1.9\")\n    public fun minutes(value: Long): Duration =
value.toDuration(DurationUnit.MINUTES)\n\n    /**\n     * Returns a [Duration] representing the specified
[value] number of minutes.\n     *\n     * @throws IllegalArgumentException
if the provided `Double` [value] is `NaN`.\n     */\n    @SinceKotlin(\"1.5\")\n    @ExperimentalTime\n    @Deprecated(\"Use 'Double.minutes' extension property from Duration.Companion instead.\",
ReplaceWith(\"value.minutes\", \"kotlin.time.Duration.Companion.minutes\"))\n
@DeprecatedSinceKotlin(warningSince = \"1.6\", errorSince = \"1.8\", hiddenSince = \"1.9\")\n    public fun
minutes(value: Double): Duration = value.toDuration(DurationUnit.MINUTES)\n\n    /** Returns a [Duration]
representing the specified [value] number of hours. *\n     @SinceKotlin(\"1.5\")\n     @ExperimentalTime\n     @Deprecated(\"Use 'Int.hours' extension property from Duration.Companion instead.\",
ReplaceWith(\"value.hours\", \"kotlin.time.Duration.Companion.hours\"))\n
@DeprecatedSinceKotlin(warningSince = \"1.6\", errorSince = \"1.8\", hiddenSince = \"1.9\")\n    public fun
hours(value: Int): Duration = value.toDuration(DurationUnit.HOURS)\n\n    /** Returns a [Duration] representing the specified [value] number of hours. *\n     @SinceKotlin(\"1.5\")\n     @ExperimentalTime\n     @Deprecated(\"Use 'Long.hours' extension property from Duration.Companion
instead.\", ReplaceWith(\"value.hours\", \"kotlin.time.Duration.Companion.hours\"))\n
@DeprecatedSinceKotlin(warningSince = \"1.6\", errorSince = \"1.8\", hiddenSince = \"1.9\")\n    public fun
hours(value: Long): Duration = value.toDuration(DurationUnit.HOURS)\n\n    /**\n     * Returns a [Duration] representing the specified [value] number of hours.\n     *\n     * @throws IllegalArgumentException if the
provided `Double` [value] is `NaN`.\n     */\n    @SinceKotlin(\"1.5\")\n    @ExperimentalTime\n    @Deprecated(\"Use 'Double.hours' extension property from Duration.Companion instead.\",
ReplaceWith(\"value.hours\", \"kotlin.time.Duration.Companion.hours\"))\n
@DeprecatedSinceKotlin(warningSince
= \"1.6\", errorSince = \"1.8\", hiddenSince = \"1.9\")\n    public fun hours(value: Double): Duration =
value.toDuration(DurationUnit.HOURS)\n\n    /** Returns a [Duration] representing the specified [value]
number of days. *\n     @SinceKotlin(\"1.5\")\n     @ExperimentalTime\n     @Deprecated(\"Use 'Int.days'
extension property from Duration.Companion instead.\", ReplaceWith(\"value.days\",
\"kotlin.time.Duration.Companion.days\"))\n
@DeprecatedSinceKotlin(warningSince = \"1.6\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\n    public fun days(value: Int): Duration =
value.toDuration(DurationUnit.DAYS)\n\n    /** Returns a [Duration] representing the specified [value] number
of days. *\n     @SinceKotlin(\"1.5\")\n     @ExperimentalTime\n     @Deprecated(\"Use 'Long.days'
extension property from Duration.Companion instead.\", ReplaceWith(\"value.days\",
\"kotlin.time.Duration.Companion.days\"))\n
@DeprecatedSinceKotlin(warningSince
= \"1.6\", errorSince = \"1.8\", hiddenSince = \"1.9\")\n    public fun days(value: Long): Duration =
value.toDuration(DurationUnit.DAYS)\n\n    /**\n     * Returns a [Duration] representing the specified [value]
number of days.\n     *\n     * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n     */\n    @SinceKotlin(\"1.5\")\n    @ExperimentalTime\n    @Deprecated(\"Use 'Double.days' extension
property from Duration.Companion instead.\", ReplaceWith(\"value.days\",
\"kotlin.time.Duration.Companion.days\"))\n
@DeprecatedSinceKotlin(warningSince = \"1.6\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\n    public fun days(value: Double): Duration =
value.toDuration(DurationUnit.DAYS)\n\n    /**\n     * Parses a string that represents a duration and returns the
parsed [Duration] value.\n     *\n     * The following formats are accepted:\n     *\n     * - ISO-8601
Duration format, e.g. `P1DT2H3M4.058S`,
see [toIsoString] and [parseIsoString].\n     * - The format of string returned by the default [Duration.toString]
and `toString` in a specific unit,\n     * e.g. `10s`, `1h 30m` or `-(1h 30m)`.\n     *\n     * @throws
IllegalArgumentException if the string doesn't represent a duration in any of the supported formats.\n     */\n    @sample samples.time.Durations.parse\n    public fun parse(value: String): Duration = try {\n
parseDuration(value, strictIso = false)\n    } catch (e: IllegalArgumentException) {\n        throw

```

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IllegalArgumentException("Invalid duration string format: '$value'.", e)\n    }\n\n    /**\n     * Parses a
string that represents a duration in a restricted ISO-8601 composite representation\n     * and returns the parsed
[Duration] value.\n     * Composite representation is a relaxed version of ISO-8601 duration format that
supports\n     * negative durations and negative values
of individual components.\n     *\n     * The following restrictions are imposed:\n     *\n     * - The only
allowed non-time designator is days (`D`). `Y` (years), `W` (weeks), and `M` (months) are not supported.\n     *
- Day is considered to be exactly 24 hours (24-hour clock time scale).\n     * - Alternative week-based
representation `[P][number][W]` is not supported.\n     *\n     * @throws IllegalArgumentException if
the string doesn't represent a duration in ISO-8601 format.\n     * @sample
samples.time.Durations.parseIsoString\n     */\n    public fun parseIsoString(value: String): Duration = try {\n
    parseDuration(value, strictIso = true)\n    } catch (e: IllegalArgumentException) {\n        throw
IllegalArgumentException("Invalid ISO duration string format: '$value'.", e)\n    }\n\n    /**\n     * Parses a
string that represents a duration and returns the parsed [Duration] value,\n
    * or `null` if the string doesn't represent a duration in any of the supported formats.\n     *\n     * The
following formats are accepted:\n     *\n     * - Restricted ISO-8601 duration composite representation, e.g.
`P1DT2H3M4.058S`, see [toIsoString] and [parseIsoString].\n     * - The format of string returned by the default
[Duration.toString] and `toString` in a specific unit,\n     * e.g. `10s`, `1h 30m` or `-(1h 30m)`.\n     *
\n     * @sample samples.time.Durations.parse\n     */\n    public fun parseOrNull(value: String): Duration? = try {\n
    parseDuration(value, strictIso = false)\n    } catch (e: IllegalArgumentException) {\n        null\n    }\n\n
    /**\n     * Parses a string that represents a duration in restricted ISO-8601 composite representation\n     * and
returns the parsed [Duration] value or `null` if the string doesn't represent a duration in the format\n     *
acceptable by [parseIsoString].\n     *\n     * @sample samples.time.Durations.parseIsoString\n     */\n    public fun
parseIsoStringOrNull(value: String): Duration? = try {\n        parseDuration(value, strictIso = true)\n    } catch
(e: IllegalArgumentException) {\n        null\n    }\n\n    // arithmetic operators\n\n    /** Returns the
negative of this value. */\n    public operator fun unaryMinus(): Duration = durationOf(-value,
unitDiscriminator)\n\n    /**\n     * Returns a duration whose value is the sum of this and [other] duration values.\n
    *\n     * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n
    * e.g. when adding infinite durations of different sign.\n     */\n    public operator fun plus(other: Duration):
Duration {\n        when {\n            this.isInfinite() -> {\n                if (other.isFinite() || (this.rawValue xor
other.rawValue >= 0))\n                    return this\n                else\n                    throw
IllegalArgumentException("Summing infinite durations of different signs yields an
undefined result.")\n            }\n            other.isInfinite() -> return other\n        }\n        return when {\n
            this.unitDiscriminator == other.unitDiscriminator -> {\n                val result = this.value + other.value // never
overflows long, but can overflow long63\n                when {\n                    isInNanos() ->\n
                    durationOfNanosNormalized(result)\n                } else ->\n                    durationOfMillisNormalized(result)\n
            }\n            this.isInMillis() ->\n                addValuesMixedRanges(this.value, other.value)\n        }\n        else ->\n            addValuesMixedRanges(other.value, this.value)\n    }\n\n    private fun
addValuesMixedRanges(thisMillis: Long, otherNanos: Long): Duration {\n        val otherMillis =
nanosToMillis(otherNanos)\n        val
resultMillis = thisMillis + otherMillis\n        return if (resultMillis in -
MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n            val otherNanoRemainder = otherNanos -
millisToNanos(otherMillis)\n            durationOfNanos(millisToNanos(resultMillis) + otherNanoRemainder)\n        }
else {\n            durationOfMillis(resultMillis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n        }\n    }\n\n    /**\n
     * Returns a duration whose value is the difference between this and [other] duration values.\n     *\n     * @throws
IllegalArgumentException if the operation results in an undefined value for the given arguments,\n     * e.g. when
subtracting infinite durations of the same sign.\n     */\n    public operator fun minus(other: Duration): Duration =
this + (-other)\n\n    /**\n     * Returns a duration whose value is this duration value multiplied by the given [scale]

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number.\n * \n * @throws IllegalArgumentException if the operation results in an undefined value for the given
arguments,\n * e.g. when multiplying an infinite duration by zero.\n * \n public operator fun times(scale:
Int): Duration {\n if (isInfinite()) {\n return when {\n scale == 0 -> throw
IllegalArgumentException("Multiplying infinite duration by zero yields an undefined result.")\n scale > 0
-> this\n else -> -this\n }\n }\n if (scale == 0) return ZERO\n\n val value = value\n
val result = value * scale\n return if (isInNanos()) {\n if (value in (MAX_NANOS /
Int.MIN_VALUE)..(-MAX_NANOS / Int.MIN_VALUE)) {\n // can't overflow nanos range for any
scale\n durationOfNanos(result)\n } else {\n if (result / scale == value) {\n
durationOfNanosNormalized(result)\n } else {\n val millis = nanosToMillis(value)\n
val remNanos = value - millisToNanos(millis)\n
val resultMillis = millis * scale\n val totalMillis = resultMillis + nanosToMillis(remNanos *
scale)\n if (resultMillis / scale == millis && totalMillis xor resultMillis >= 0) {\n
durationOfMillis(totalMillis.coerceIn(-MAX_MILLIS..MAX_MILLIS))\n } else {\n if
(value.sign * scale.sign > 0) INFINITE else NEG_INFINITE\n }\n }\n }\n } else
{\n if (result / scale == value) {\n durationOfMillis(result.coerceIn(-
MAX_MILLIS..MAX_MILLIS))\n } else {\n if (value.sign * scale.sign > 0) INFINITE else
NEG_INFINITE\n }\n }\n }\n\n /**\n * Returns a duration whose value is this duration value
multiplied by the given [scale] number.\n * \n * The operation may involve rounding when the result cannot be
represented exactly with a [Double]
number.\n * \n * @throws IllegalArgumentException if the operation results in an undefined value for the
given arguments,\n * e.g. when multiplying an infinite duration by zero.\n * \n public operator fun
times(scale: Double): Duration {\n val intScale = scale.roundToInt()\n if (intScale.toDouble() == scale) {\n
return times(intScale)\n }\n\n val unit = storageUnit\n val result = toDouble(unit) * scale\n
return result.toDuration(unit)\n }\n\n /**\n * Returns a duration whose value is this duration value divided by
the given [scale] number.\n * \n * @throws IllegalArgumentException if the operation results in an undefined
value for the given arguments,\n * e.g. when dividing zero duration by zero.\n * \n public operator fun
div(scale: Int): Duration {\n if (scale == 0) {\n return when {\n isPositive() -> INFINITE\n
isNegative() -> NEG_INFINITE\n
else -> throw IllegalArgumentException("Dividing zero duration by zero yields an undefined result.")\n
}\n }\n if (isInNanos()) {\n return durationOfNanos(value / scale)\n } else {\n if
(isInfinite())\n return this * scale.sign\n\n val result = value / scale\n\n if (result in -
MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n val rem = millisToNanos(value - (result *
scale)) / scale\n return durationOfNanos(millisToNanos(result) + rem)\n }\n return
durationOfMillis(result)\n }\n }\n\n /**\n * Returns a duration whose value is this duration value divided
by the given [scale] number.\n * \n * @throws IllegalArgumentException if the operation results in an
undefined value for the given arguments,\n * e.g. when dividing an infinite duration by infinity or zero duration
by zero.\n * \n public
operator fun div(scale: Double): Duration {\n val intScale = scale.roundToInt()\n if (intScale.toDouble()
== scale && intScale != 0) {\n return div(intScale)\n }\n\n val unit = storageUnit\n val result =
toDouble(unit) / scale\n return result.toDuration(unit)\n }\n\n /** Returns a number that is the ratio of this
and [other] duration values. *\n public operator fun div(other: Duration): Double {\n val coarserUnit =
maxOf(this.storageUnit, other.storageUnit)\n return this.toDouble(coarserUnit) / other.toDouble(coarserUnit)\n
}\n\n /**\n * Returns a duration whose value is this duration value truncated to the specified duration [unit].\n
*\n *\n internal fun truncateTo(unit: DurationUnit): Duration {\n val storageUnit = storageUnit\n if (unit <=
storageUnit || this.isInfinite()) return this\n val scale = convertDurationUnit(1, unit, storageUnit)\n val result
= value -
value % scale\n return result.toDuration(storageUnit)\n }\n\n /** Returns true, if the duration value is less
than zero. *\n public fun isNegative(): Boolean = rawValue < 0\n\n /** Returns true, if the duration value is

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greater than zero. */
public fun isPositive(): Boolean = rawValue > 0
/** Returns true, if the duration value
is infinite. */
public fun isInfinite(): Boolean = rawValue == INFINITE.rawValue || rawValue ==
NEG_INFINITE.rawValue
/** Returns true, if the duration value is finite. */
public fun isFinite(): Boolean
= !isInfinite()
/** Returns the absolute value of this value. The returned value is always non-negative. */
public val absoluteValue: Duration get() = if (isNegative()) -this else this
override fun compareTo(other:
Duration): Int {
val compareBits = this.rawValue xor other.rawValue
if (compareBits < 0 ||
compareBits.toInt() and 1 == 0) // different signs or same sign/same range
return this.rawValue.compareTo(other.rawValue) // same sign/different ranges
val r =
this.unitDiscriminator - other.unitDiscriminator // compare ranges
return if (isNegative()) -r else r
}
// splitting to components
/**
 * Splits this duration into days, hours, minutes, seconds, and nanoseconds
and executes the given [action] with these components.
 * The result of [action] is returned as the result of this
function.
 * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute
value is less than 1_000_000_000;
 * - `seconds` represents the whole number of seconds in this duration, and its
absolute value is less than 60;
 * - `minutes` represents the whole number of minutes in this duration, and its
absolute value is less than 60;
 * - `hours` represents the whole number of hours in this duration, and its absolute
value is less than 24;
 * - `days`
represents the whole number of days in this duration.
 * Infinite durations are represented as either
[Long.MAX_VALUE] days, or [Long.MIN_VALUE] days (depending on the sign of infinity),
 * and zeroes in the lower components.
 */
public inline fun <T> toComponents(action: (days: Long, hours: Int, minutes: Int,
seconds: Int, nanoseconds: Int) -> T): T {
contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
return action(inWholeDays, hoursComponent, minutesComponent, secondsComponent,
nanosecondsComponent)
}
/**
 * Splits this duration into hours, minutes, seconds, and nanoseconds
and executes the given [action] with these components.
 * The result of [action] is returned as the result of this
function.
 * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute
value is less than 1_000_000_000;
 * - `seconds` represents the whole number of seconds in this
duration, and its absolute value is less than 60;
 * - `minutes` represents the whole number of minutes in this
duration, and its absolute value is less than 60;
 * - `hours` represents the whole number of hours in this
duration.
 * Infinite durations are represented as either [Long.MAX_VALUE] hours, or
[Long.MIN_VALUE] hours (depending on the sign of infinity),
 * and zeroes in the lower components.
 */
public inline fun <T> toComponents(action: (hours: Long, minutes: Int, seconds: Int, nanoseconds: Int) -> T):
T {
contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
return action(inWholeHours,
minutesComponent, secondsComponent, nanosecondsComponent)
}
/**
 * Splits this duration into
minutes, seconds, and nanoseconds and executes the given [action] with these components.
 * The result of
[action] is returned as the result of this function.
 * - `nanoseconds` represents the whole
number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;
 * - `seconds`
represents the whole number of seconds in this duration, and its absolute value is less than 60;
 * - `minutes`
represents the whole number of minutes in this duration.
 * Infinite durations are represented as either
[Long.MAX_VALUE] minutes, or [Long.MIN_VALUE] minutes (depending on the sign of infinity),
 * and
zeroes in the lower components.
 */
public inline fun <T> toComponents(action: (minutes: Long, seconds:
Int, nanoseconds: Int) -> T): T {
contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
return action(inWholeMinutes, secondsComponent, nanosecondsComponent)
}
/**
 * Splits this
duration into seconds, and nanoseconds and executes the given [action] with these components.
 * The result of
[action] is returned as the result of this function.
 * - `nanoseconds` represents
the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;
 * -
`seconds` represents the whole number of seconds in this duration.
 * Infinite durations are represented as
either [Long.MAX_VALUE] seconds, or [Long.MIN_VALUE] seconds (depending on the sign of infinity),
 * and
zero nanoseconds.
 */
public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) ->
T): T {
contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
return

```



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action(inWholeSeconds, nanosecondsComponent)\n    }\n    @PublishedApi\n    internal val hoursComponent:
Int\n    get() = if (isInfinite()) 0 else (inWholeHours % 24).toInt()\n    @PublishedApi\n    internal val
minutesComponent: Int\n    get() = if (isInfinite()) 0 else (inWholeMinutes % 60).toInt()\n    @PublishedApi\n    internal val secondsComponent: Int\n    get() = if (isInfinite()) 0 else (inWholeSeconds % 60).toInt()\n
    @PublishedApi\n    internal val nanosecondsComponent: Int\n    get() = when {\n        isInfinite() -> 0\n        isInMillis() -> millisToNanos(value % 1_000).toInt()\n        else -> (value % 1_000_000_000).toInt()\n
    }\n\n    // conversion to units\n    /**\n     * Returns the value of this duration expressed as a [Double] number of
the specified [unit].\n     *\n     * The operation may involve rounding when the result cannot be represented exactly
with a [Double] number.\n     *\n     * An infinite duration value is converted either to
[Double.POSITIVE_INFINITY] or [Double.NEGATIVE_INFINITY] depending on its sign.\n     */\n    public fun
toDouble(unit: DurationUnit): Double {\n        return when (rawValue) {\n            INFINITE.rawValue ->
Double.POSITIVE_INFINITY\n            NEG_INFINITE.rawValue -> Double.NEGATIVE_INFINITY\n            else -> {\n
                // TODO: whether it's ok to convert to Double before scaling\n
                convertDurationUnit(value.toDouble(), storageUnit, unit)\n            }\n        }\n    }\n\n    /**\n     * Returns the
value of this duration expressed as a [Long] number of the specified [unit].\n     *\n     * If the result doesn't fit in the
range of [Long] type, it is coerced into that range:\n     * - [Long.MIN_VALUE] is returned if it's less than
`Long.MIN_VALUE`,\n     * - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n     *\n     * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on
its sign.\n     */\n    public fun toLong(unit: DurationUnit): Long {\n        return when (rawValue) {\n
            INFINITE.rawValue -> Long.MAX_VALUE\n            NEG_INFINITE.rawValue -> Long.MIN_VALUE\n            else -> convertDurationUnit(value, storageUnit, unit)\n        }\n    }\n\n    /**\n     * Returns the value of this
duration expressed as an [Int] number of the specified [unit].\n     *\n     * If the result
doesn't fit in the range of [Int] type, it is coerced into that range:\n     * - [Int.MIN_VALUE] is returned if it's less
than `Int.MIN_VALUE`,\n     * - [Int.MAX_VALUE] is returned if it's greater than `Int.MAX_VALUE`.\n     *\n     * An infinite duration value is converted either to [Int.MAX_VALUE] or [Int.MIN_VALUE] depending on its
sign.\n     */\n    public fun toInt(unit: DurationUnit): Int =\n        toLong(unit).coerceIn(Int.MIN_VALUE.toLong(),
Int.MAX_VALUE.toLong()).toInt()\n\n    /**\n     * The value of this duration expressed as a [Double] number of days.\n
     */\n    @ExperimentalTime\n    @Deprecated("Use inWholeDays property instead or convert toDouble(DAYS) if a
double value is required.", ReplaceWith("toDouble(DurationUnit.DAYS)"))\n
    @DeprecatedSinceKotlin(warningSince = "1.5", errorSince = "1.8", hiddenSince = "1.9")\n    public val inDays:
Double get() = toDouble(DurationUnit.DAYS)\n\n    /**\n     * The value of this duration expressed as a [Double] number
of hours.\n     */\n    @ExperimentalTime\n    @Deprecated("Use inWholeHours property instead or convert toDouble(HOURS) if a
double value is required.", ReplaceWith("toDouble(DurationUnit.HOURS)"))\n
    @DeprecatedSinceKotlin(warningSince = "1.5", errorSince = "1.8", hiddenSince = "1.9")\n    public val
inHours: Double get() = toDouble(DurationUnit.HOURS)\n\n    /**\n     * The value of this duration expressed as a
[Double] number of minutes.\n     */\n    @ExperimentalTime\n    @Deprecated("Use inWholeMinutes property instead
or convert toDouble(MINUTES) if a double value is required.",
    ReplaceWith("toDouble(DurationUnit.MINUTES)"))\n    @DeprecatedSinceKotlin(warningSince = "1.5",
errorSince = "1.8", hiddenSince = "1.9")\n    public val inMinutes: Double get() =
toDouble(DurationUnit.MINUTES)\n\n    /**\n     * The value of this duration expressed as a [Double] number of seconds.
     */\n    @ExperimentalTime\n    @Deprecated("Use inWholeSeconds property instead or convert
toDouble(SECONDS) if a double value
is required.", ReplaceWith("toDouble(DurationUnit.SECONDS)"))\n    @DeprecatedSinceKotlin(warningSince =
"1.5", errorSince = "1.8", hiddenSince = "1.9")\n    public val inSeconds: Double get() =
toDouble(DurationUnit.SECONDS)\n\n    /**\n     * The value of this duration expressed as a [Double] number of
milliseconds.\n     */\n    @ExperimentalTime\n    @Deprecated("Use inWholeMilliseconds property instead or convert
toDouble(MILLISECONDS) if a double value is required.",

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ReplaceWith("toDouble(DurationUnit.MILLISECONDS)")\n @DeprecatedSinceKotlin(warningSince = `1.5`,
errorSince = `1.8`, hiddenSince = `1.9`)
public val inMilliseconds: Double get() =
toDouble(DurationUnit.MILLISECONDS)\n\n /** The value of this duration expressed as a [Double] number of
microseconds. */\n @ExperimentalTime\n @Deprecated("Use inWholeMicroseconds property instead or
convert toDouble(MICROSECONDS) if a double value is required.",
ReplaceWith("toDouble(DurationUnit.MICROSECONDS)")\n\n
@DeprecatedSinceKotlin(warningSince = `1.5`, errorSince = `1.8`, hiddenSince = `1.9`)
public val inMicroseconds: Double get() = toDouble(DurationUnit.MICROSECONDS)\n\n /** The value of this duration
expressed as a [Double] number of nanoseconds. */\n @ExperimentalTime\n @Deprecated("Use
inWholeNanoseconds property instead or convert toDouble(NANOSECONDS) if a double value is required.",
ReplaceWith("toDouble(DurationUnit.NANOSECONDS)")\n\n @DeprecatedSinceKotlin(warningSince =
`1.5`, errorSince = `1.8`, hiddenSince = `1.9`)
public val inNanoseconds: Double get() =
toDouble(DurationUnit.NANOSECONDS)\n\n\n /**\n * The value of this duration expressed as a [Long]
number of days.\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeDays: Long\n get() =
toLong(DurationUnit.DAYS)\n\n\n /**\n * The value of this duration expressed
as a [Long] number of hours.\n * An infinite duration value is converted either to [Long.MAX_VALUE]
or [Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeHours: Long\n get() =
toLong(DurationUnit.HOURS)\n\n\n /**\n * The value of this duration expressed as a [Long] number of
minutes.\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeMinutes: Long\n get() =
toLong(DurationUnit.MINUTES)\n\n\n /**\n * The value of this duration expressed as a [Long] number of
seconds.\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeSeconds: Long\n get() =
toLong(DurationUnit.SECONDS)\n\n\n /**\n * The value of this duration expressed as a [Long] number of
milliseconds.\n * An infinite duration value is converted
either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n */\n public val
inWholeMilliseconds: Long\n get() {\n return if (isInMillis() && isFinite()) value else
toLong(DurationUnit.MILLISECONDS)\n }\n\n\n /**\n * The value of this duration expressed as a [Long]
number of microseconds.\n * If the result doesn't fit in the range of [Long] type, it is coerced into that
range:\n * - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n * -
[Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n */\n public val
inWholeMicroseconds: Long\n get() = toLong(DurationUnit.MICROSECONDS)\n\n\n /**\n * The value of
this duration expressed as a [Long] number of nanoseconds.\n * If the result doesn't fit in the range of
[Long] type, it is coerced
into that range:\n * - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n * -
[Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n */\n public val
inWholeNanoseconds: Long\n get() {\n val value = value\n return when {\n isInNanos()
-> value\n value > Long.MAX_VALUE / NANOS_IN_MILLIS -> Long.MAX_VALUE\n value
< Long.MIN_VALUE / NANOS_IN_MILLIS -> Long.MIN_VALUE\n else -> millisToNanos(value)\n
}\n }\n\n // shortcuts\n\n\n /**\n * Returns the value of this duration expressed as a [Long] number of
nanoseconds.\n * If the value doesn't fit in the range of [Long] type, it is coerced into that range, see the
conversion [Double.toLong] for details.\n * The range of durations that can
be expressed as a `Long` number of nanoseconds is approximately \u00b1292 years.\n */\n
@ExperimentalTime\n @Deprecated("Use inWholeNanoseconds property instead.",
ReplaceWith("this.inWholeNanoseconds"))\n @DeprecatedSinceKotlin(warningSince = `1.5`, errorSince =

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`1.8`, hiddenSince = `1.9`)
    public fun toLongNanoseconds(): Long = inWholeNanoseconds
    /**
     * Returns the value of this duration expressed as a [Long] number of milliseconds.
     * The value is coerced to the range of [Long] type, if it doesn't fit in that range, see the conversion [Double.toLong] for details.
     * The range of durations that can be expressed as a `Long` number of milliseconds is approximately 0.001292 million years.
     * @ExperimentalTime
     * @Deprecated("Use inWholeMilliseconds property instead.", ReplaceWith("this.inWholeMilliseconds"))
     * @DeprecatedSinceKotlin(warningSince = `1.5`, errorSince = `1.8`, hiddenSince = `1.9`)
     public fun toLongMilliseconds(): Long = inWholeMilliseconds
    /**
     * Returns a string representation of this duration value expressed as a combination of numeric components, each in its own unit.
     * Each component is a number followed by the unit abbreviated name: `d`, `h`, `m`, `s`, `5h`, `1d 12h`, `1h 0m 30.340s`.
     * The last component, usually seconds, can be a number with a fractional part.
     * If the duration is less than a second, it is represented as a single number with one of sub-second units: `ms` (milliseconds), `us` (microseconds), or `ns` (nanoseconds): `140.884ms`, `500us`, `24ns`.
     * A negative duration is prefixed with `-` sign and, if it consists of multiple components, surrounded with parentheses: `-12m` and `-(1h 30m)`.
     * Special cases:
     * - an infinite duration is formatted as `"Infinity"` or `"-Infinity"` without a unit.
     * It's recommended to use [toIsoString] that uses more strict ISO-8601 format instead of this `toString` when you want to convert a duration to a string in cases of serialization, interchange, etc.
     * @sample samples.time.Durations.toStringDefault
     * override fun toString(): String = when (rawValue) {
     *     OL -> "0s"
     *     INFINITE.rawValue -> "Infinity"
     *     NEG_INFINITE.rawValue -> "-Infinity"
     *     else -> {
     *         val isNegative = isNegative()
     *         buildString {
     *             if (isNegative) append('-')
     *             absoluteValue.toComponents { days, hours, minutes, seconds, nanoseconds ->
     *                 val hasDays = days != 0L
     *                 val hasHours = hours != 0L
     *                 val hasMinutes = minutes != 0L
     *                 val hasSeconds = seconds != 0 || nanoseconds != 0L
     *                 var components = 0
     *                 if (hasDays) {
     *                     append(days).append('d')
     *                     components++
     *                 }
     *                 if (hasHours || (hasDays && (hasMinutes || hasSeconds))) {
     *                     if (components++ > 0) append(' ')
     *                     append(hours).append('h')
     *                 }
     *                 if (hasMinutes || (hasSeconds && (hasHours || hasDays))) {
     *                     if (components++ > 0) append(' ')
     *                     append(minutes).append('m')
     *                 }
     *                 if (hasSeconds) {
     *                     if (components++ > 0) append(' ')
     *                     when {
     *                         seconds != 0 || hasDays || hasHours || hasMinutes ->
     *                             appendFractional(seconds, nanoseconds, 9, "s", isoZeroes = false)
     *                         nanoseconds >= 1_000_000 ->
     *                             appendFractional(nanoseconds / 1_000_000, nanoseconds % 1_000_000, 6, "ms", isoZeroes = false)
     *                         nanoseconds >= 1_000 ->
     *                             appendFractional(nanoseconds / 1_000, nanoseconds % 1_000, 3, "us", isoZeroes = false)
     *                     }
     *                     else ->
     *                         append(nanoseconds).append("ns")
     *                 }
     *                 if (isNegative && components > 1) insert(1, '(').append(')')
     *             }
     *         }
     *     }
     * }
    private fun StringBuilder.appendFractional(whole: Int, fractional: Int, fractionalSize: Int, unit: String, isoZeroes: Boolean) {
        append(whole)
        if (fractional != 0) {
            append('.')
            val fracString = fractional.toString().padStart(fractionalSize, '0')
            when {
                !isoZeroes && nonZeroDigits < 3 -> appendRange(fracString, 0, nonZeroDigits)
                else -> appendRange(fracString, 0, ((nonZeroDigits + 2) / 3) * 3)
            }
            append(unit)
        }
    }
    /**
     * Returns a string representation of this duration value expressed in the given [unit] and formatted with the specified [decimals] number of digits after decimal point.
     * Special cases:
     * - an infinite duration is formatted as `"Infinity"` or `"-Infinity"` without a unit.
     * @param decimals the number of digits after decimal point to show. The value must be non-negative.
     * No more than 12 decimals will be shown, even if a larger number is requested.
     * @return the value of duration in the specified [unit] followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`,

```

```

`us`, or `ns`.
    * @throws IllegalArgumentException if [decimals] is less than zero.
    * @sample samples.time.Durations.toStringDecimals
    * public fun toString(unit: DurationUnit, decimals: Int = 0):
String {
    require(decimals
    >= 0) { "decimals must be not negative, but was $decimals" }
    val number = toDouble(unit)
    if (number.isInfinite()) return number.toString()
    return formatToExactDecimals(number,
    decimals.coerceAtMost(12)) + unit.shortName()
}
/** Returns an ISO-8601 based string
representation of this duration.
    * The returned value is presented in the format `PTm>s.fS`, where `h`,
`m`, `s` are the integer components of this duration (see [toComponents])
    * and `f` is a fractional part of second.
Depending on the roundness of the value the fractional part can be formatted with either
    * 0, 3, 6, or 9 decimal
digits.
    * The infinite duration is represented as `PT9999999999999999H` which is larger than any
possible finite duration in Kotlin.
    * Negative durations are indicated with the sign `-` in the beginning of
the returned string, for example, `-PT5M30S`.
    * @sample samples.time.Durations.toIsoString
    * public fun toIsoString(): String = buildString {
    if (isNegative()) append('-')
    append("PT")
    this@Duration.absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->
    @Suppress("NAME_SHADOWING")
    var hours = hours
    if (isInfinite()) { // use large
    enough value instead of Long.MAX_VALUE
    hours = 9_999_999_999_999
    }
    val
    hasHours = hours != 0L
    val hasSeconds = seconds != 0 || nanoseconds != 0
    val hasMinutes =
    minutes != 0 || (hasSeconds && hasHours)
    if (hasHours) {
    append(hours).append('H')
    }
    if (hasMinutes) {
    append(minutes).append('M')
    }
    if (hasSeconds ||
    (!hasHours && !hasMinutes)) {
    appendFractional(seconds, nanoseconds, 9, "S", isoZeroes = true)
    }
    }
}
// constructing from number of units
// extension functions
/** Returns a [Duration] equal to
this [Int] number of the specified [unit].
    * @SinceKotlin("1.6")
    * @WasExperimental(ExperimentalTime::class)
    * public fun Int.toDuration(unit:
DurationUnit): Duration {
    return if (unit <= DurationUnit.SECONDS) {
    durationOfNanos(convertDurationUnitOverflow(this.toLong(), unit, DurationUnit.NANOSECONDS))
    } else {
    toLong().toDuration(unit)
    }
}
/** Returns a [Duration] equal to this [Long] number of the specified [unit].
    * @SinceKotlin("1.6")
    * @WasExperimental(ExperimentalTime::class)
    * public fun Long.toDuration(unit:
DurationUnit): Duration {
    val maxNsInUnit = convertDurationUnitOverflow(MAX_NANOS,
DurationUnit.NANOSECONDS, unit)
    if (this in -maxNsInUnit..maxNsInUnit) {
    return
    durationOfNanos(convertDurationUnitOverflow(this, unit, DurationUnit.NANOSECONDS))
    } else {
    val
    millis = convertDurationUnit(this, unit,
DurationUnit.MILLISECONDS)
    return durationOfMillis(millis.coerceIn(-MAX_MILLIS,
MAX_MILLIS))
    }
}
/** Returns a [Duration] equal to this [Double] number of the specified [unit].
    * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.
    * @throws IllegalArgumentException if this `Double` value is `NaN`.
    * @SinceKotlin("1.6")
    * @WasExperimental(ExperimentalTime::class)
    * public fun Double.toDuration(unit:
DurationUnit): Duration {
    val valueInNs = convertDurationUnit(this, unit, DurationUnit.NANOSECONDS)
    require(!valueInNs.isNaN()) { "Duration value cannot be NaN." }
    val nanos = valueInNs.roundToLong()
    return if (nanos in -MAX_NANOS..MAX_NANOS) {
    durationOfNanos(nanos)
    } else {
    val millis =
    convertDurationUnit(this, unit, DurationUnit.MILLISECONDS).roundToLong()
    durationOfMillisNormalized(millis)
    }
}
// constructing from number of units
// deprecated extension properties
/** Returns a [Duration] equal to this [Int] number of nanoseconds.
    * @SinceKotlin("1.3")
    * @ExperimentalTime
    * @Deprecated("Use 'Int.nanoseconds' extension property from
Duration.Companion instead.", ReplaceWith("this.nanoseconds",
"kotlin.time.Duration.Companion.nanoseconds"))
    * @DeprecatedSinceKotlin(warningSince = "1.5", errorSince =
"1.8", hiddenSince = "1.9")
    * public val Int.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)
/** Returns a [Duration] equal to this [Long] number of

```

```

nanoseconds. *  

@SinceKotlin("1.3")  

@ExperimentalTime  

@Deprecated("Use 'Long.nanoseconds' extension  

property from Duration.Companion instead.", ReplaceWith("this.nanoseconds",  

"\"kotlin.time.Duration.Companion.nanoseconds\""))  

@DeprecatedSinceKotlin(warningSince = "1.5", errorSince =  

"1.8", hiddenSince = "1.9")  

public val Long.nanoseconds get() =  

toDuration(DurationUnit.NANOSECONDS)  

/** Returns a [Duration] equal to this [Double]  

number of nanoseconds.  

* @throws IllegalArgumentException if this [Double] value is `NaN`.  

*  

@SinceKotlin("1.3")  

@ExperimentalTime  

@Deprecated("Use 'Double.nanoseconds' extension property  

from Duration.Companion instead.", ReplaceWith("this.nanoseconds",  

"\"kotlin.time.Duration.Companion.nanoseconds\""))  

@DeprecatedSinceKotlin(warningSince = "1.5", errorSince =  

"1.8", hiddenSince = "1.9")  

public val Double.nanoseconds get() =  

toDuration(DurationUnit.NANOSECONDS)  

/** Returns a [Duration] equal to this [Int] number of  

microseconds. *  

@SinceKotlin("1.3")  

@ExperimentalTime  

@Deprecated("Use 'Int.microseconds' extension  

property from Duration.Companion instead.", ReplaceWith("this.microseconds",  

"\"kotlin.time.Duration.Companion.microseconds\""))  

@DeprecatedSinceKotlin(warningSince = "1.5", errorSince  

= "1.8", hiddenSince = "1.9")  

public val Int.microseconds get() =  

toDuration(DurationUnit.MICROSECONDS)  

/** Returns a [Duration] equal to this  

[Long] number of microseconds. *  

@SinceKotlin("1.3")  

@ExperimentalTime  

@Deprecated("Use  

'Long.microseconds' extension property from Duration.Companion instead.", ReplaceWith("this.microseconds",  

"\"kotlin.time.Duration.Companion.microseconds\""))  

@DeprecatedSinceKotlin(warningSince = "1.5", errorSince  

= "1.8", hiddenSince = "1.9")  

public val Long.microseconds get() =  

toDuration(DurationUnit.MICROSECONDS)  

/** Returns a [Duration] equal to this [Double] number of  

microseconds.  

* @throws IllegalArgumentException if this [Double] value is `NaN`.  

*  

@SinceKotlin("1.3")  

@ExperimentalTime  

@Deprecated("Use 'Double.microseconds' extension property  

from Duration.Companion instead.", ReplaceWith("this.microseconds",  

"\"kotlin.time.Duration.Companion.microseconds\""))  

@DeprecatedSinceKotlin(warningSince = "1.5", errorSince  

= "1.8", hiddenSince = "1.9")  

public val Double.microseconds get() =  

toDuration(DurationUnit.MICROSECONDS)  

/** Returns a [Duration]  

equal to this [Int] number of milliseconds. *  

@SinceKotlin("1.3")  

@ExperimentalTime  

@Deprecated("Use  

'Int.milliseconds' extension property from Duration.Companion instead.", ReplaceWith("this.milliseconds",  

"\"kotlin.time.Duration.Companion.milliseconds\""))  

@DeprecatedSinceKotlin(warningSince = "1.5", errorSince =  

"1.8", hiddenSince = "1.9")  

public val Int.milliseconds get() =  

toDuration(DurationUnit.MILLISECONDS)  

/** Returns a [Duration] equal to this [Long] number of  

milliseconds. *  

@SinceKotlin("1.3")  

@ExperimentalTime  

@Deprecated("Use 'Long.milliseconds' extension  

property from Duration.Companion instead.", ReplaceWith("this.milliseconds",  

"\"kotlin.time.Duration.Companion.milliseconds\""))  

@DeprecatedSinceKotlin(warningSince = "1.5", errorSince =  

"1.8", hiddenSince = "1.9")  

public val Long.milliseconds get() =  

toDuration(DurationUnit.MILLISECONDS)  

/** Returns a [Duration] equal to this [Double] number of  

milliseconds.  

* @throws  

IllegalArgumentException if this [Double] value is `NaN`.  

*  

@SinceKotlin("1.3")  

@ExperimentalTime  

@Deprecated("Use 'Double.milliseconds' extension property  

from Duration.Companion instead.", ReplaceWith("this.milliseconds",  

"\"kotlin.time.Duration.Companion.milliseconds\""))  

@DeprecatedSinceKotlin(warningSince = "1.5", errorSince =  

"1.8", hiddenSince = "1.9")  

public val Double.milliseconds get() =  

toDuration(DurationUnit.MILLISECONDS)  

/** Returns a [Duration] equal to this [Int] number of seconds.  

*  

@SinceKotlin("1.3")  

@ExperimentalTime  

@Deprecated("Use 'Int.seconds' extension property from  

Duration.Companion instead.", ReplaceWith("this.seconds",  

"\"kotlin.time.Duration.Companion.seconds\""))  

@DeprecatedSinceKotlin(warningSince = "1.5", errorSince =  

"1.8", hiddenSince = "1.9")  

public val Int.seconds get() = toDuration(DurationUnit.SECONDS)  

/** Returns

```

a [Duration] equal to this [Long] number of seconds.

```
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Long.seconds' extension property from Duration.Companion instead.", ReplaceWith("this.seconds",  
"kotlin.time.Duration.Companion.seconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5", errorSince =  
"1.8", hiddenSince = "1.9")\npublic val Long.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/**\n Returns a [Duration] equal to this [Double] number of seconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n *\n *\n @SinceKotlin("1.3")\n @ExperimentalTime\n @Deprecated("Use 'Double.seconds' extension property from Duration.Companion instead.", ReplaceWith("this.seconds",  
"kotlin.time.Duration.Companion.seconds"))\n @DeprecatedSinceKotlin(warningSince = "1.5", errorSince =  
"1.8", hiddenSince = "1.9")\n public val Double.seconds get() = toDuration(DurationUnit.SECONDS)\n\n\n Returns a [Duration] equal to this [Int] number of minutes.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Int.minutes' extension property from Duration.Companion instead.", ReplaceWith("this.minutes",  
"kotlin.time.Duration.Companion.minutes"))\n@DeprecatedSinceKotlin(warningSince = "1.5", errorSince =  
"1.8", hiddenSince = "1.9")\npublic val Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/**\n Returns a [Duration] equal to this [Long] number of minutes.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Long.minutes' extension property from Duration.Companion instead.", ReplaceWith("this.minutes",  
"kotlin.time.Duration.Companion.minutes"))\n@DeprecatedSinceKotlin(warningSince = "1.5", errorSince =  
"1.8", hiddenSince = "1.9")\npublic val Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n\n Returns a [Duration] equal to this [Double] number of minutes.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n *\n *\n @SinceKotlin("1.3")\n @ExperimentalTime\n @Deprecated("Use 'Double.minutes' extension property from Duration.Companion instead.", ReplaceWith("this.minutes",  
"kotlin.time.Duration.Companion.minutes"))\n @DeprecatedSinceKotlin(warningSince = "1.5", errorSince =  
"1.8", hiddenSince = "1.9")\n public val Double.minutes get() = toDuration(DurationUnit.MINUTES)\n\n\n Returns a [Duration] equal to this [Int] number of hours.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Int.hours' extension property from Duration.Companion instead.", ReplaceWith("this.hours",  
"kotlin.time.Duration.Companion.hours"))\n@DeprecatedSinceKotlin(warningSince = "1.5", errorSince = "1.8",  
hiddenSince = "1.9")\npublic val Int.hours get() = toDuration(DurationUnit.HOURS)\n\n\n Returns a [Duration] equal to this [Long] number of hours. *\n @SinceKotlin("1.3")\n @ExperimentalTime\n @Deprecated("Use 'Long.hours' extension property from Duration.Companion instead.", ReplaceWith("this.hours",  
"kotlin.time.Duration.Companion.hours"))\n @DeprecatedSinceKotlin(warningSince = "1.5", errorSince =  
"1.8", hiddenSince = "1.9")\n public val Long.hours get() = toDuration(DurationUnit.HOURS)\n\n\n Returns a [Duration] equal to this [Double] number of hours.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n *\n *\n @SinceKotlin("1.3")\n @ExperimentalTime\n @Deprecated("Use 'Double.hours' extension property from Duration.Companion instead.", ReplaceWith("this.hours",  
"kotlin.time.Duration.Companion.hours"))\n @DeprecatedSinceKotlin(warningSince = "1.5", errorSince = "1.8",  
hiddenSince = "1.9")\n public val Double.hours get() = toDuration(DurationUnit.HOURS)\n\n\n Returns a [Duration] equal to this [Int] number of days.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Int.days' extension property from Duration.Companion instead.", ReplaceWith("this.days",  
"kotlin.time.Duration.Companion.days"))\n@DeprecatedSinceKotlin(warningSince = "1.5", errorSince = "1.8",  
hiddenSince = "1.9")\npublic val Int.days get() = toDuration(DurationUnit.DAYS)\n\n\n Returns a [Duration] equal to this [Long] number of days.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Long.days' extension property from Duration.Companion instead.", ReplaceWith("this.days",
```

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\kotlin.time.Duration.Companion.days\))\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince = \"1.8\",
hiddenSince = \"1.9\")\npublic val Long.days get() = toDuration(DurationUnit.DAYS)\n\n/**\n * Returns a
[Duration] equal to this [Double] number of days.\n *\n * @throws IllegalArgumentException if this [Double] value
is `NaN`.\n *\n @SinceKotlin(\"1.3\")\n @ExperimentalTime\n @Deprecated(\"Use 'Double.days' extension property
from Duration.Companion instead.\", ReplaceWith(\"this.days\"),

```

```

\kotlin.time.Duration.Companion.days\))\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince = \"1.8\",
hiddenSince = \"1.9\")\npublic val Double.days get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a duration
whose value is the specified

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[duration] value multiplied by this number.

```

*\n @SinceKotlin(\"1.6\")\n @WasExperimental(ExperimentalTime::class)\n @kotlin.internal.InlineOnly\n public
inline operator fun Int.times(duration: Duration): Duration = duration * this\n\n/**\n * Returns a duration whose
value is the specified [duration] value multiplied by this number.\n *\n * The operation may involve rounding when
the result cannot be represented exactly with a [Double] number.\n *\n * @throws IllegalArgumentException if the
operation results in a `NaN` value.\n

```

```

*\n @SinceKotlin(\"1.6\")\n @WasExperimental(ExperimentalTime::class)\n @kotlin.internal.InlineOnly\n public
inline operator fun Double.times(duration: Duration): Duration = duration * this\n\n\nprivate fun
parseDuration(value: String, strictIso: Boolean): Duration {\n    var length = value.length\n    if (length == 0) throw
IllegalArgumentException(\"The string is empty\")\n    var index = 0\n    var result = Duration.ZERO\n    val
infinityString = \"Infinity\"\n

```

```

    when (value[index]) {\n        '+', '-' -> index++\n    }\n    val hasSign = index > 0\n    val isNegative = hasSign &&
value.startsWith('-')\n    when {\n        length <= index ->\n            throw IllegalArgumentException(\"No
components\")\n        value[index] == 'P' -> {\n            if (++index == length) throw
IllegalArgumentException()\n            val nonDigitSymbols = \"+-.\",\n                var isTimeComponent = false\n                var prevUnit: DurationUnit? =
null\n                while (index < length) {\n                    if (value[index] == 'T') {\n                        if (isTimeComponent ||
++index == length) throw IllegalArgumentException()\n                        isTimeComponent = true\n                    }\n                    continue\n                }\n                val component = value.substringWhile(index) { it in '0'..'9' || it in nonDigitSymbols }\n                if (component.isEmpty()) throw
IllegalArgumentException()\n                index += component.length\n                val unitChar

```

```

= value.getOrElse(index) { throw IllegalArgumentException(\"Missing unit for value $component\") }\n            index++\n            val unit = durationUnitByIsoChar(unitChar, isTimeComponent)\n            if (prevUnit != null
&& prevUnit <= unit) throw IllegalArgumentException(\"Unexpected order of duration components\")\n            prevUnit = unit\n            val dotIndex = component.indexOf('.')\n            if (unit == DurationUnit.SECONDS
&& dotIndex > 0) {\n                val whole = component.substring(0, dotIndex)\n                result +=
parseOverLongIsoComponent(whole).toDuration(unit)\n                result +=
component.substring(dotIndex).toDouble().toDuration(unit)\n            } else {\n                result +=
parseOverLongIsoComponent(component).toDuration(unit)\n            }\n        }\n        strictIso ->\n            throw
IllegalArgumentException()\n        value.regionMatches(index, infinityString,

```

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0, length = maxOf(length - index, infinityString.length), ignoreCase = true) -> {\n            result =
Duration.INFINITE\n        }\n        else -> {\n            // parse default string format\n            var prevUnit:
DurationUnit? = null\n            var afterFirst = false\n            var allowSpaces = !hasSign\n            if (hasSign &&
value[index] == '(' && value.last() == ')') {\n                allowSpaces = true\n                if (++index == --length) throw
IllegalArgumentException(\"No components\")\n            }\n            while (index < length) {\n                if (afterFirst
&& allowSpaces) {\n                    index = value.skipWhile(index) { it == ' ' }\n                }\n                afterFirst =
true\n                val component = value.substringWhile(index) { it in '0'..'9' || it == '.' }\n                if
(component.isEmpty()) throw IllegalArgumentException()\n                index += component.length\n                val
unitName = value.substringWhile(index)

```

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{ it in 'a'..'z' }\n                index += unitName.length\n                val unit = durationUnitByShortName(unitName)\n                if (prevUnit != null && prevUnit <= unit) throw
IllegalArgumentException(\"Unexpected order of duration

```

```

components\})\n          prevUnit = unit\n          val dotIndex = component.indexOf('.')\n          if (dotIndex
> 0) {\n          val whole = component.substring(0, dotIndex)\n          result +=
whole.toLong().toDuration(unit)\n          result +=
component.substring(dotIndex).toDouble().toDuration(unit)\n          if (index < length) throw
IllegalArgumentException("Fractional component must be last")\n          } else {\n          result +=
component.toLong().toDuration(unit)\n          }\n          }\n          }\n          return if (isNegative) -result else
result\n}\n}\n\nprivate fun parseOverLongIsoComponent(value: String): Long {\n
val length = value.length\n var startIndex = 0\n if (length > 0 && value[0] in "+-") startIndex++\n if
((length - startIndex) > 16 && (startIndex..value.lastIndex).all { value[it] in '0'..'9' }) {\n // all chars are digits,
but more than ceiling(log10(MAX_MILLIS / 1000)) of them\n return if (value[0] == '-') Long.MIN_VALUE
else Long.MAX_VALUE\n }\n // TODO: replace with just toLong after min JDK becomes 8\n return if
(value.startsWith("+")) value.drop(1).toLong() else value.toLong()\n}\n}\n}\n\nprivate inline fun
String.substringWhile(startIndex: Int, predicate: (Char) -> Boolean): String =\n substring(startIndex,
skipWhile(startIndex, predicate))\n\nprivate inline fun String.skipWhile(startIndex: Int, predicate: (Char) ->
Boolean): Int {\n var i = startIndex\n while (i < length && predicate(this[i])) i++\n return i\n}\n}\n}\n}\n}\n\n//
The ranges are chosen so that they are:\n// - symmetric relative to zero: this greatly simplifies operations
with sign, e.g. unaryMinus and minus.\n// - non-overlapping, but adjacent: the first value that doesn't fit in nanos
range, can be exactly represented in millis.\n\ninternal const val NANOS_IN_MILLIS = 1_000_000\n// maximum
number duration can store in nanosecond range\n\ninternal const val MAX_NANOS = Long.MAX_VALUE / 2 /
NANOS_IN_MILLIS * NANOS_IN_MILLIS - 1 // ends in ...999_999\n// maximum number duration can store in
millisecond range, also encodes an infinite value\n\ninternal const val MAX_MILLIS = Long.MAX_VALUE / 2\n//
MAX_NANOS expressed in milliseconds\n\nprivate const val MAX_NANOS_IN_MILLIS = MAX_NANOS /
NANOS_IN_MILLIS\n\nprivate fun nanosToMillis(nanos: Long): Long = nanos / NANOS_IN_MILLIS\n\nprivate
fun millisToNanos(millis: Long): Long = millis * NANOS_IN_MILLIS\n\nprivate fun
durationOfNanos(normalNanos: Long) = Duration(normalNanos shl 1)\n\nprivate fun durationOfMillis(normalMillis:
Long) = Duration((normalMillis shl 1) + 1)\n\nprivate fun durationOf(normalValue: Long,
unitDiscriminator: Int) = Duration((normalValue shl 1) + unitDiscriminator)\n\nprivate fun
durationOfNanosNormalized(nanos: Long) =\n if (nanos in -MAX_NANOS..MAX_NANOS) {\n
durationOfNanos(nanos)\n } else {\n durationOfMillis(nanosToMillis(nanos))\n }\n\nprivate fun
durationOfMillisNormalized(millis: Long) =\n if (millis in -
MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n durationOfNanos(millisToNanos(millis))\n }
else {\n durationOfMillis(millis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n }\n\n\ninternal expect val
durationAssertionsEnabled: Boolean\n\n\ninternal expect fun formatToExactDecimals(value: Double, decimals: Int):
String\n\n\ninternal expect fun formatUpToDecimals(value: Double, decimals: Int): String\n", "/*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmName("UnsignedKt")\n\npackage
kotlin\n\n\n@PublishedApi\n\n\ninternal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor
Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)\n\n\n@PublishedApi\n\n\ninternal fun ulongCompare(v1: Long,
v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2 xor Long.MIN_VALUE)\n\n\n\n@PublishedApi\n\n\ninternal
fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()\n\n\n\n@PublishedApi\n\n\ninternal
fun uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()\n\n\n// Division and remainder are
based on Guava's UnsignedLongs implementation\n\n// Copyright 2011 The Guava
Authors\n\n\n\n@PublishedApi\n\n\ninternal fun ulongDivide(v1: ULong, v2: ULong): ULong {\n val dividend =
v1.toLong()\n val divisor = v2.toLong()\n if (divisor < 0) { // i.e., divisor >= 2^63:\n return if (v1 < v2)
ULong(0) else ULong(1)\n }\n }\n\n // Optimization - use signed division if both dividend and divisor < 2^63\n if
(dividend >= 0) {\n return ULong(dividend / divisor)\n }

```



```

}

// Otherwise, approximate the quotient, check, and correct if necessary.
val quotient = ((dividend ushr 1) / divisor) shl 1
val rem = dividend - quotient * divisor
return ULong(quotient + if (ULong(rem) >= ULong(divisor)) 1 else 0)
}

@PublishedApi
internal fun ulongRemainder(v1: ULong, v2: ULong): ULong {
    val dividend = v1.toLong()
    val divisor = v2.toLong()
    if (divisor < 0) { // i.e., divisor >= 2^63
        return if (v1 < v2) {
            v1 // dividend < divisor
        } else {
            v1 - v2 // dividend >= divisor
        }
    }
    // Optimization - use signed modulus if both dividend and divisor < 2^63
    if (dividend >= 0) {
        return ULong(dividend % divisor)
    }
    // Otherwise, approximate the quotient, check, and correct if necessary.
    val quotient = ((dividend ushr 1) / divisor) shl 1
    val rem = dividend - quotient * divisor
    return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0)
}

@PublishedApi
internal fun doubleToUInt(v: Double): UInt = when {
    v.isNaN() -> 0u
    v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE
    v >= UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE
    v <= Int.MAX_VALUE -> v.toInt().toUInt()
    else -> (v - Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt() // Int.MAX_VALUE < v < UInt.MAX_VALUE
}

@PublishedApi
internal fun doubleToULong(v: Double): ULong = when {
    v.isNaN() -> 0u
    v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE
    v >= ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE
    v < Long.MAX_VALUE -> v.toLong().toULong()
    // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not representable in Double, so don't handle them.
    else -> (v - 9223372036854775808.0).toLong().toULong() + 9223372036854775808uL // Long.MAX_VALUE + 1 < v < ULong.MAX_VALUE
}

@PublishedApi
internal fun uintToDouble(v: Int): Double = (v and Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() * 2

@PublishedApi
internal fun ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)

@PublishedApi
internal fun ulongToString(v: Long): String = ulongToString(v, 10)

@PublishedApi
internal fun ulongToString(v: Long, base: Int): String {
    if (v >= 0) return v.toString(base)
    var quotient = ((v ushr 1) / base) shl 1
    var rem = v - quotient * base
    if (rem >= base) {
        rem -= base
        quotient += 1
    }
    return quotient.toString(base) + rem.toString(base)
}

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND,
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 * and limitations under the License.
 */
package kotlin.internal

/**
 * Specifies that the corresponding type parameter is not used for unsafe operations such as casts or 'is' checks
 * That means it's completely safe to use generic types as argument for such parameter.
 */
@Target(AnnotationTarget.TYPE_PARAMETER)
@Retention(AnnotationRetention.BINARY)
internal annotation class PureReifiable

/**
 * Specifies that the corresponding built-in method exists depending on platform.
 * Current implementation for JVM looks whether method with same JVM descriptor exists in the module JDK.
 * For example MutableMap.remove(K, V) available only if corresponding method 'java.util.Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)
 */
@Target(AnnotationTarget.FUNCTION)
@Retention(AnnotationRetention.BINARY)
internal annotation class PlatformDependent

/**
 * When applied to a function or property, enables a compiler optimization that evaluates that function or property at compile-time and replaces calls to it with the computed result.
 */
@Target(AnnotationTarget.CONSTRUCTOR, AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.7")
internal annotation class IntrinsicConstEvaluation

/*
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 */

```



```

sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Sequences.Transformations.flattenSequenceOfSequences\n *\npublic fun <T>
Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\n\n**\n * Returns a sequence of all
elements from all iterables in this sequence.\n *\n * The
operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Sequences.Transformations.flattenSequenceOfLists\n
*\n@kotlin.jvm.JvmName("\nflattenSequenceOfIterable\n")\npublic fun <T> Sequence<Iterable<T>>.flatten():
Sequence<T> = flatten { it.iterator() }\n\nprivate fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>):
Sequence<R> {\n    if (this is TransformingSequence<*, *>) {\n        return (this as TransformingSequence<*,
T>).flatten(iterator)\n    }\n    return FlatteningSequence(this, { it }, iterator)\n}\n\n**\n * Returns a pair of lists,
where\n * *first* list is built from the first values of each pair from this sequence,\n * *second* list is built from the
second values of each pair from this sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Sequences.Transformations.unzip\n *\npublic fun <T, R> Sequence<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n    val listT = ArrayList<T>()\n    val listR = ArrayList<R>()\n
    for (pair in this) {\n        listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return listT to listR\n}\n\n**\n * Returns a sequence that yields elements of this sequence randomly shuffled.\n *\n * Note that every iteration of
the sequence returns elements in a different order.\n *\n * The operation is _intermediate_ and _stateful_.\n
*\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.shuffled(): Sequence<T> = shuffled(Random)\n\n**\n * Returns a sequence that yields elements of this sequence randomly shuffled\n * using the specified [random]
instance as the source of randomness.\n *\n * Note that every iteration of the sequence returns elements in a
different order.\n *\n * The operation is _intermediate_ and _stateful_.\n *\n@SinceKotlin("1.4")\npublic fun <T>
Sequence<T>.shuffled(random: Random): Sequence<T> = sequence<T> {\n    val buffer = toMutableList()\n
    while (buffer.isNotEmpty()) {\n        val j = random.nextInt(buffer.size)\n        val last
= buffer.removeLast()\n        val value = if (j < buffer.size) buffer.set(j, last) else last\n        yield(value)\n
    }\n}\n\n**\n * A sequence that returns the values from the underlying [sequence] that either match or do not
match\n * the specified [predicate].\n *\n * @param sendWhen If `true`, values for which the predicate returns `true`
are returned. Otherwise,\n * values for which the predicate returns `false` are returned\n *\ninternal class
FilteringSequence<T>(\n    private val sequence: Sequence<T>,\n    private val sendWhen: Boolean = true,\n    private val predicate: (T) -> Boolean\n) : Sequence<T> {\n    override fun iterator(): Iterator<T> = object :
Iterator<T> {\n        val iterator = sequence.iterator()\n        var nextState: Int = -1 // -1 for unknown, 0 for done, 1
for continue\n        var nextItem: T? = null\n        private fun calcNext() {\n            while (iterator.hasNext()) {\n
                val item = iterator.next()\n                if (predicate(item)
== sendWhen) {\n                    nextItem = item\n                    nextState = 1\n                    return\n                }\n
                nextState = 0\n            }\n            override fun next(): T {\n                if (nextState == -1)\n
calcNext()\n                if (nextState == 0)\n                    throw NoSuchElementException()\n                val result =
nextItem\n                nextItem = null\n                nextState = -1\n                @Suppress("UNCHECKED_CAST")\n
return result as T\n            }\n            override fun hasNext(): Boolean {\n                if (nextState == -1)\n
calcNext()\n                return nextState == 1\n            }\n        }\n}\n\n**\n * A sequence which returns the results of
applying the given [transformer] function to the values\n * in the underlying [sequence].\n *\ninternal class
TransformingSequence<T, R>\nconstructor(private val sequence: Sequence<T>, private val transformer: (T) -> R) :
Sequence<R>
{\n    override fun iterator(): Iterator<R> = object : Iterator<R> {\n        val iterator = sequence.iterator()\n
        override fun next(): R {\n            return transformer(iterator.next())\n        }\n        override fun hasNext(): Boolean
{\n            return iterator.hasNext()\n        }\n    }\n    internal fun <E> flatten(iterator: (R) -> Iterator<E>):
Sequence<E> {\n        return FlatteningSequence<T, R, E>(sequence, transformer, iterator)\n    }\n}\n\n**\n * A
sequence which returns the results of applying the given [transformer] function to the values\n * in the underlying
[sequence], where the transformer function takes the index of the value in the underlying\n * sequence along with
the value itself.\n *\ninternal class TransformingIndexedSequence<T, R>\nconstructor(private val sequence:

```

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Sequence<T>, private val transformer: (Int, T) -> R) : Sequence<R> {
    override fun iterator(): Iterator<R> =
    object : Iterator<R> {
        val iterator = sequence.iterator()
        var index = 0
        override fun next(): R {
            return transformer(checkIndexOverflow(index++),
            iterator.next())
        }
        override fun hasNext(): Boolean {
            return iterator.hasNext()
        }
    }
}

// A sequence which combines values from the underlying [sequence] with their indices and returns
// them as [IndexedValue] objects.
internal class IndexingSequence<T> {
    constructor(private val sequence:
    Sequence<T>) : Sequence<IndexedValue<T>> {
        override fun iterator(): Iterator<IndexedValue<T>> = object :
        Iterator<IndexedValue<T>> {
            val iterator = sequence.iterator()
            var index = 0
            override fun next():
            IndexedValue<T> {
                return IndexedValue(checkIndexOverflow(index++),
                iterator.next())
            }
            override fun hasNext(): Boolean {
                return iterator.hasNext()
            }
        }
    }
}

// A sequence which
// takes the values from two parallel underlying
// sequences, passes them to the given [transform] function and returns the values returned by that function. The
// sequence stops returning values as soon as one of the underlying sequences stops returning values.
internal class MergingSequence<T1, T2, V> {
    constructor(
        private val sequence1: Sequence<T1>,
        private val
        sequence2: Sequence<T2>,
        private val transform: (T1, T2) -> V) : Sequence<V> {
        override fun iterator():
        Iterator<V> = object : Iterator<V> {
            val iterator1 = sequence1.iterator()
            val iterator2 =
            sequence2.iterator()
            override fun next(): V {
                return transform(iterator1.next(),
                iterator2.next())
            }
            override fun hasNext(): Boolean {
                return iterator1.hasNext() &&
                iterator2.hasNext()
            }
        }
    }
}

// A sequence which
// flattens a sequence of sequences.
internal class FlatteningSequence<T, R, E> {
    constructor(
        private val sequence: Sequence<T>,
        private val transformer: (T) -> R,
        private val iterator: (R) ->
        Iterator<E>) : Sequence<E> {
        override fun iterator(): Iterator<E> = object : Iterator<E> {
            val iterator =
            sequence.iterator()
            var itemIterator: Iterator<E>? = null
            override fun next(): E {
                if
                (!ensureItemIterator())
                throw NoSuchElementException()
                return itemIterator!!.next()
            }
            override fun hasNext(): Boolean {
                return
                ensureItemIterator()
            }
            private fun
            ensureItemIterator(): Boolean {
                if (itemIterator?.hasNext() ==
                false)
                itemIterator = null
                while (itemIterator == null) {
                    if
                    (!iterator.hasNext())
                    return false
                } else {
                    val element =
                    iterator.next()
                    val nextItemIterator =
                    iterator(transformer(element))
                    if (nextItemIterator.hasNext())
                        itemIterator =
                        nextItemIterator
                    return true
                }
            }
        }
    }
}

// A sequence which
// flat maps a sequence of sequences.
internal fun
<T, C, R> flatMapIndexed(source: Sequence<T>, transform: (Int, T) -> C,
iterator: (C) -> Iterator<R>) :
Sequence<R> =
sequence {
    var index = 0
    for (element in source) {
        val result =
        transform(checkIndexOverflow(index++), element)
        yieldAll(iterator(result))
    }
}

// A
// sequence that supports drop(n) and take(n) operations.
internal interface DropTakeSequence<T> :
Sequence<T> {
    fun drop(n: Int): Sequence<T>
    fun take(n: Int): Sequence<T>
}

// A
// sequence that
// skips [startIndex] values from the underlying [sequence] and stops returning values right before [endIndex], i.e.
// stops at `endIndex - 1`.
internal class SubSequence<T> {
    constructor(
        private val sequence: Sequence<T>,
        private
        val startIndex: Int,
        private val endIndex: Int) : Sequence<T>,
        DropTakeSequence<T> {
        init {
            require(startIndex >= 0) { "startIndex should be non-negative, but is
            $startIndex" }
            require(endIndex >= 0) { "endIndex should be non-negative, but is
            $endIndex" }
            require(endIndex >= startIndex) { "endIndex should be not less than
            startIndex, but was $endIndex < $startIndex" }
        }
        private val count: Int get() = endIndex -
        startIndex
        override fun drop(n: Int): Sequence<T> = if (n
        >= count) emptySequence() else SubSequence(sequence,
        startIndex + n, endIndex)
        override fun take(n: Int):
        Sequence<T> = if (n >= count) this else
        SubSequence(sequence, startIndex, startIndex + n)
        override fun
        iterator() = object : Iterator<T> {
            val iterator =
            sequence.iterator()
            var position = 0
            //
            // Shouldn't be called from constructor to avoid premature iteration
            private fun drop() {
                while (position
                < startIndex && iterator.hasNext())
                iterator.next()
                position++
            }
            override fun hasNext(): Boolean {
                return
                drop()
            }
            return
            (position < endIndex) && iterator.hasNext()
        }
        override fun next(): T {
            drop()
            if
        }
    }
}

```

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(position >= endIndex)\n        throw NoSuchElementException()\n        position++\n        return
iterator.next()\n    }\n}\n\n/**\n * A sequence that returns at most [count] values from the underlying
[sequence], and stops returning values\n * as soon as that count is reached.\n *\ninternal class TakeSequence<T>(\n    private val sequence: Sequence<T>,\n    private val count: Int\n) : Sequence<T>, DropTakeSequence<T> {\n    init {\n        require(count >= 0) { \"count must be non-negative, but was $count.\" }\n    }\n    override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence() else SubSequence(sequence, n, count)\n    override fun take(n: Int): Sequence<T> = if (n >= count) this else TakeSequence(sequence, n)\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        var left = count\n        val iterator = sequence.iterator()\n        override fun next(): T {\n            if (left == 0)\n                throw NoSuchElementException()\n            left--\n            return iterator.next()\n        }\n    }\n    override fun hasNext(): Boolean {\n        return left > 0 && iterator.hasNext()\n    }\n}\n\n/**\n * A sequence that returns values from the underlying [sequence] while the [predicate] function returns\n * `true`, and stops returning values once the function returns `false` for the next element.\n *\ninternal class TakeWhileSequence<T>(\n    private val sequence: Sequence<T>,\n    private val predicate: (T) -> Boolean\n) : Sequence<T> {\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator = sequence.iterator()\n        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n        var nextItem: T? = null\n        private fun calcNext() {\n            if (iterator.hasNext()) {\n                val item = iterator.next()\n                if (predicate(item)) {\n                    nextState = 1\n                    nextItem = item\n                    return\n                }\n                nextState = 0\n            }\n        }\n        override fun next(): T {\n            if (nextState == -1)\n                calcNext() // will change nextState\n            if (nextState == 0)\n                throw NoSuchElementException()\n            @SuppressWarnings(\"UNCHECKED_CAST\")\n            val result = nextItem as T\n            // Clean next to avoid keeping reference on yielded instance\n            nextItem = null\n            nextState = -1\n            return result\n        }\n        override fun hasNext(): Boolean {\n            if (nextState == -1)\n                calcNext() // will change nextState\n            return nextState == 1\n        }\n    }\n}\n\n/**\n * A sequence that skips the specified number of values from the underlying [sequence] and returns\n * all values after that.\n *\ninternal class DropSequence<T>(\n    private val sequence: Sequence<T>,\n    private val count: Int\n) : Sequence<T>, DropTakeSequence<T> {\n    init {\n        require(count >= 0) { \"count must be non-negative, but was $count.\" }\n    }\n    override fun drop(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) DropSequence(this, n) else DropSequence(sequence, n1) }\n    override fun take(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n) else SubSequence(sequence, count, n1) }\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator = sequence.iterator()\n        var left = count\n        // Shouldn't be called from constructor to avoid premature iteration\n        private fun drop() {\n            while (left > 0 && iterator.hasNext()) {\n                iterator.next()\n                left--\n            }\n        }\n        override fun next(): T {\n            drop()\n            return iterator.next()\n        }\n        override fun hasNext(): Boolean {\n            drop()\n            return iterator.hasNext()\n        }\n    }\n}\n\n/**\n * A sequence that skips the values from the underlying [sequence] while the given [predicate] returns `true` and returns\n * all values after that.\n *\ninternal class DropWhileSequence<T>(\n    private val sequence: Sequence<T>,\n    private val predicate: (T) -> Boolean\n) : Sequence<T> {\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator = sequence.iterator()\n        var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal iteration\n        var nextItem: T? = null\n        private fun drop() {\n            while (iterator.hasNext()) {\n                val item = iterator.next()\n                if (!predicate(item)) {\n                    nextItem = item\n                    dropState = 1\n                    return\n                }\n                dropState = 0\n            }\n        }\n        override fun next(): T {\n            if (dropState == -1)\n                drop()\n            if (dropState == 1) {\n                @SuppressWarnings(\"UNCHECKED_CAST\")\n                val result = nextItem as T\n                nextItem = null\n                dropState = 0\n                return result\n            }\n            return iterator.next()\n        }\n        override fun hasNext(): Boolean {\n            if (dropState == -1)\n                drop()\n            return dropState == 1 || iterator.hasNext()\n        }\n    }\n}\n\ninternal class DistinctSequence<T, K>(\n    private val

```

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source: Sequence<T>, private val keySelector: (T) -> K) : Sequence<T> {\n  override fun iterator(): Iterator<T> =
DistinctIterator(source.iterator(), keySelector)\n}\n\nprivate
class DistinctIterator<T, K>(private val source: Iterator<T>, private val keySelector: (T) -> K) :
AbstractIterator<T>() {\n  private val observed = HashSet<K>()\n  override fun computeNext() {\n    while
(source.hasNext()) {\n      val next = source.next()\n      val key = keySelector(next)\n      if
(observed.add(key)) {\n        setNext(next)\n        return\n      }\n    }\n    done()\n  }\n}\n\nprivate class GeneratorSequence<T : Any>(private val getInitialValue: () -> T?, private val getNextValue:
(T) -> T?) : Sequence<T> {\n  override fun iterator(): Iterator<T> = object : Iterator<T> {\n    var nextItem: T?
= null\n    var nextState: Int = -2 // -2 for initial unknown, -1 for next unknown, 0 for done, 1 for continue\n\n    private fun calcNext() {\n      nextItem = if (nextState == -2) getInitialValue() else getNextValue(nextItem!)\n      nextState = if (nextItem == null) 0 else 1\n    }\n\n    override fun next(): T {\n      if (nextState < 0)\n        calcNext()\n      if (nextState ==
0)\n        throw NoSuchElementException()\n      val result = nextItem as T\n      // Do not clean
nextItem (to avoid keeping reference on yielded instance) -- need to keep state for getNextValue\n      nextState
= -1\n      return result\n    }\n\n    override fun hasNext(): Boolean {\n      if (nextState < 0)\n        calcNext()\n      return nextState == 1\n    }\n  }\n}\n\n/**\n * Returns a wrapper sequence that provides
values of this sequence, but ensures it can be iterated only one time.\n * The operation is _intermediate_ and
_stateless_.\n * [[IllegalStateException]] is thrown on iterating the returned sequence for the second time and the
following times.\n */\n\npublic fun <T> Sequence<T>.constrainOnce(): Sequence<T> {\n  // as? does not work
in js\n  //return
this as? ConstrainedOnceSequence<T> ?: ConstrainedOnceSequence(this)\n  return if (this is
ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence(this)\n}\n\n/**\n * Returns a sequence which
invokes the function to calculate the next value on each iteration until the function returns `null`.\n * The
returned sequence is constrained to be iterated only once.\n * @see constrainOnce\n * @see
kotlin.sequences.sequence\n */\n * @sample samples.collections.Sequences.Building.generateSequence\n */\n\npublic
fun <T : Any> generateSequence(nextFunction: () -> T?): Sequence<T> {\n  return
GeneratorSequence(nextFunction, { nextFunction() }).constrainOnce()\n}\n\n/**\n * Returns a sequence defined by
the starting value [seed] and the function [nextFunction],\n * which is invoked to calculate the next value based on
the previous one on each iteration.\n * The sequence produces values until it encounters first `null` value.\n * If
[seed] is `null`, an empty sequence is produced.\n * The sequence can be iterated multiple times, each time starting with [seed].\n * @see
kotlin.sequences.sequence\n */\n * @sample samples.collections.Sequences.Building.generateSequenceWithSeed\n */\n\n@kotlin.internal.LowPriorityInOverloadResolution\npublic fun <T : Any> generateSequence(seed: T?,
nextFunction: (T) -> T?): Sequence<T> =\n  if (seed == null)\n    EmptySequence\n  else\n    GeneratorSequence({ seed }, nextFunction)\n}\n\n/**\n * Returns a sequence defined by the function [seedFunction],
which is invoked to produce the starting value,\n * and the [nextFunction], which is invoked to calculate the next
value based on the previous one on each iteration.\n * The sequence produces values until it encounters first
`null` value.\n * If [seedFunction] returns `null`, an empty sequence is produced.\n * The sequence can be
iterated multiple times.\n * @see kotlin.sequences.sequence\n */\n * @sample
samples.collections.Sequences.Building.generateSequenceWithLazySeed\n */\n\npublic fun <T : Any> generateSequence(seedFunction: () -> T?, nextFunction: (T) -> T?): Sequence<T> =\n  GeneratorSequence(seedFunction, nextFunction)\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("PreconditionsKt")\n\npackage
kotlin\n\nimport kotlin.contracts.contract\n\n/**\n * Throws an [[IllegalArgumentException]] if the [value] is false.\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n */\n\n@kotlin.internal.InlineOnly\npublic
inline fun require(value: Boolean): Unit {\n  contract {\n    returns() implies value\n  }\n  require(value) {

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"Failed requirement.\n }\n}\n\n/**\n * Throws an [IllegalArgumentException] with the result of calling
[lazyMessage] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n
*\n@kotlin.internal.InlineOnly\npublic inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {\n
contract {\n    returns() implies value\n }\n if (!value) {\n    val message = lazyMessage()\n    throw
IllegalArgumentException(message.toString())\n }\n}\n\n/**\n * Throws an [IllegalArgumentException] if the
[value] is null. Otherwise returns the not null value.\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any>
requireNotNull(value: T?): T {\n    contract {\n    returns() implies (value != null)\n }\n    return
requireNotNull(value) { "Required value was null." }\n}\n\n/**\n * Throws an [IllegalArgumentException] with
the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample
samples.misc.Preconditions.failRequireNotNullWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic inline
fun <T : Any> requireNotNull(value: T?,
lazyMessage: () -> Any): T {\n    contract {\n    returns() implies (value != null)\n }\n\n    if (value == null) {\n
        val message = lazyMessage()\n        throw IllegalArgumentException(message.toString())\n    } else {\n
        return value\n    }\n}\n\n/**\n * Throws an [IllegalStateException] if the [value] is false.\n *\n * @sample
samples.misc.Preconditions.failCheckWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic inline fun
check(value: Boolean): Unit {\n    contract {\n    returns() implies value\n }\n    check(value) { "Check failed."
}\n}\n\n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.\n
*\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic
inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {\n    contract {\n    returns() implies value\n }\n
if (!value) {\n    val message = lazyMessage()\n    throw
IllegalStateException(message.toString())\n }\n}\n\n/**\n * Throws an [IllegalStateException] if the [value] is
null. Otherwise\n * returns the not null value.\n *\n * @sample
samples.misc.Preconditions.failCheckWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T :
Any> checkNotNull(value: T?): T {\n    contract {\n    returns() implies (value != null)\n }\n    return
checkNotNull(value) { "Required value was null." }\n}\n\n/**\n * Throws an [IllegalStateException] with the
result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample
samples.misc.Preconditions.failCheckWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T :
Any> checkNotNull(value: T?, lazyMessage: () -> Any): T {\n    contract {\n    returns() implies (value != null)\n
}\n\n    if (value == null) {\n        val message = lazyMessage()\n        throw
IllegalStateException(message.toString())\n    } else {\n
        return value\n    }\n}\n\n/**\n * Throws an [IllegalStateException] with the given [message].\n *\n *
@sample samples.misc.Preconditions.failWithError\n *\n@kotlin.internal.InlineOnly\npublic inline fun
error(message: Any): Nothing = throw IllegalStateException(message.toString())\n", "/*\n * Copyright 2010-2023
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n@kotlin.package.kotlin.collections\n\n/\n//
NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.js.*\nimport
primitiveArrayConcat\nimport withType\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n *
Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds
of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n
*\n@kotlin.public actual fun <T> Array<out T>.elementAt(index: Int): T {\n    return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, size: $size}") }\n}\n\n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample
samples.collections.Collections.Elements.elementAt\n *\n@kotlin.public actual fun ByteArray.elementAt(index: Int): Byte
{\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }\n
}\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n *\n@kotlin.public
actual fun ShortArray.elementAt(index: Int): Short {\n    return elementAtOrElse(index) { throw

```







ShortArray?): Boolean {  
 definedExternally  
 }  
 Returns `true` if the two specified arrays are  
 \*structurally\* equal to one another,  
 i.e. contain the same number of the same elements in the same order.  
 The  
 elements are compared for equality with the [equals][Any.equals] function.  
 For floating point numbers it means  
 that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.  
 @SinceKotlin("1.4")  
 @library("arrayEquals")  
 public actual infix fun IntArray?.contentEquals(other:  
 IntArray?): Boolean {  
 definedExternally  
 }  
 Returns `true` if the two specified arrays are  
 \*structurally\* equal to one another,  
 i.e. contain the same number of the same elements in the same order.  
 The elements are compared for equality with the [equals][Any.equals] function.  
 For floating point numbers it  
 means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.  
 @SinceKotlin("1.4")  
 @library("arrayEquals")  
 public actual infix fun LongArray?.contentEquals(other:  
 LongArray?): Boolean {  
 definedExternally  
 }  
 Returns `true` if the two specified arrays are  
 \*structurally\* equal to one another,  
 i.e. contain the same number of the same  
 elements in the same order.  
 The elements are compared for equality with the [equals][Any.equals]  
 function.  
 For floating point numbers it means that `NaN` is equal to itself and  
 `-0.0` is not equal to `0.0`.  
 @SinceKotlin("1.4")  
 @library("arrayEquals")  
 public actual infix fun FloatArray?.contentEquals(other:  
 FloatArray?): Boolean {  
 definedExternally  
 }  
 Returns `true` if the two specified arrays are  
 \*structurally\* equal to one another,  
 i.e. contain the same number of the same elements in the same order.  
 The elements are compared for equality with the [equals][Any.equals] function.  
 For floating point numbers it  
 means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.  
 @SinceKotlin("1.4")  
 @library("arrayEquals")  
 public actual infix fun DoubleArray?.contentEquals(other:  
 DoubleArray?): Boolean {  
 definedExternally  
 }  
 Returns `true` if the two specified arrays are  
 \*structurally\* equal to one another,  
 i.e. contain the same number of the same elements in the same order.  
 The elements are compared for  
 equality with the [equals][Any.equals] function.  
 For floating point numbers it means that `NaN` is equal to itself  
 and `-0.0` is not equal to `0.0`.  
 @SinceKotlin("1.4")  
 @library("arrayEquals")  
 public actual infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean {  
 definedExternally  
 }  
 Returns `true`  
 if the two specified arrays are \*structurally\* equal to one another,  
 i.e. contain the same number of the same  
 elements in the same order.  
 The elements are compared for equality with the [equals][Any.equals]  
 function.  
 For floating point numbers it means that `NaN` is equal to itself and  
 `-0.0` is not equal to `0.0`.  
 @SinceKotlin("1.4")  
 @library("arrayEquals")  
 public actual infix fun CharArray?.contentEquals(other:  
 CharArray?): Boolean {  
 definedExternally  
 }  
 Returns a hash code based on the  
 contents of this array as if it is [List].  
 @SinceKotlin("1.4")  
 @library("arrayHashCode")  
 public actual fun  
 <T> Array<out T>?.contentHashCode(): Int {  
 definedExternally  
 }  
 Returns a hash code based on the  
 contents of this array as if it is [List].  
 @SinceKotlin("1.4")  
 @library("arrayHashCode")  
 public actual fun  
 ByteArray?.contentHashCode(): Int {  
 definedExternally  
 }  
 Returns a hash code based on the contents  
 of this array as if it is [List].  
 @SinceKotlin("1.4")  
 @library("arrayHashCode")  
 public actual fun  
 ShortArray?.contentHashCode(): Int {  
 definedExternally  
 }  
 Returns a hash code based on the  
 contents of this array as if it is [List].  
 @SinceKotlin("1.4")  
 @library("arrayHashCode")  
 public actual fun  
 IntArray?.contentHashCode(): Int {  
 definedExternally  
 }  
 Returns a hash code based on the contents  
 of this array as if it is [List].  
 @SinceKotlin("1.4")  
 @library("arrayHashCode")  
 public  
 actual fun LongArray?.contentHashCode(): Int {  
 definedExternally  
 }  
 Returns a hash code based on  
 the contents of this array as if it is [List].  
 @SinceKotlin("1.4")  
 @library("arrayHashCode")  
 public actual  
 fun FloatArray?.contentHashCode(): Int {  
 definedExternally  
 }  
 Returns a hash code based on the  
 contents of this array as if it is [List].  
 @SinceKotlin("1.4")  
 @library("arrayHashCode")  
 public actual fun  
 DoubleArray?.contentHashCode(): Int {  
 definedExternally  
 }  
 Returns a hash code based on the  
 contents of this array as if it is [List].  
 @SinceKotlin("1.4")  
 @library("arrayHashCode")  
 public actual fun  
 BooleanArray?.contentHashCode(): Int {  
 definedExternally  
 }  
 Returns a hash code based on the

```

contents of this array as if it is [List].\n * \n * @since Kotlin("1.4")\n @library("arrayHashCode")\n public actual fun
CharArray?.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n
* Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*\n @since Kotlin("1.4")\n @library("arrayToString")\n public actual fun <T> Array<out T>?.contentToString():
String {\n    definedExternally\n}\n\n/**\n
* Returns a string representation of the contents of the specified array as
if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n @since Kotlin("1.4")\n @library("arrayToString")\n public actual fun ByteArray?.contentToString(): String
{\n    definedExternally\n}\n\n/**\n
* Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n @since Kotlin("1.4")\n @library("arrayToString")\n public actual fun ShortArray?.contentToString(): String
{\n    definedExternally\n}\n\n/**\n
* Returns a string representation
of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*\n @since Kotlin("1.4")\n @library("arrayToString")\n public actual fun IntArray?.contentToString(): String {\n
definedExternally\n}\n\n/**\n
* Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n @since Kotlin("1.4")\n @library("arrayToString")\n public actual fun LongArray?.contentToString(): String
{\n    definedExternally\n}\n\n/**\n
* Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n @since Kotlin("1.4")\n @library("arrayToString")\n public actual fun FloatArray?.contentToString(): String
{\n    definedExternally\n}\n\n/**\n
* Returns a string representation of the contents of the specified
array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n @since Kotlin("1.4")\n @library("arrayToString")\n public actual fun DoubleArray?.contentToString(): String
{\n    definedExternally\n}\n\n/**\n
* Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n @since Kotlin("1.4")\n @library("arrayToString")\n public actual fun BooleanArray?.contentToString():
String {\n    definedExternally\n}\n\n/**\n
* Returns a string representation of the contents of the specified array as
if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n @since Kotlin("1.4")\n @library("arrayToString")\n public actual fun CharArray?.contentToString(): String
{\n    definedExternally\n}\n\n/**\n
* Copies this array or its subrange into the [destination] array and returns that
array.\n * \n
* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy,
0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is
out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*\n @since Kotlin("1.3")\n @kotlin.internal.InlineOnly\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\n public
actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0,
endIndex: Int = size): Array<T> {\n    arrayCopy(this, destination, destinationOffset, startIndex, endIndex)\n
return destination\n}\n\n/**\n
* Copies this array or its subrange into the [destination] array and returns that array.\n
* \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with
the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in
the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to

```

copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex

> endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray {\n    arrayCopy(this.unsafeCast<Array<Byte>>(), destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n
```

\* Copies this array or its subrange into the [destination] array and returns that array. \n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n \* \n \* @param destination the array to copy to. \n \* @param destinationOffset

the position in the [destination] array to copy to, 0 by default. \n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default. \n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n \* @throws

IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray {\n    arrayCopy(this.unsafeCast<Array<Short>>(), destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)\n    return
```

destination\n}\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array. \n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n \* \n \* @param destination the array to copy to. \n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default. \n \* @param startIndex the beginning (inclusive) of the subrange to copy,

0 by default. \n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n

\* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {\n    arrayCopy(this.unsafeCast<Array<Int>>(), destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n
```

\* Copies this array or its subrange into the [destination] array and returns that array. \n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n \* \n \* @param destination the array to copy to. \n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default. \n \* @param startIndex the beginning (inclusive) of the subrange to copy,

0 by default. \n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0,
```

```

startIndex: Int = 0, endIndex: Int = size): LongArray {
    arrayCopy(this.unsafeCast<Array<Long>>(),
destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)
    return destination
}

* Copies this array or its
subrange into the [destination] array and returns that array.
It's allowed to pass the same array in the
[destination] and even specify the subrange so that it overlaps with the destination range.
@param destination the array to copy to.
@param destinationOffset the position in the [destination] array to copy to, 0 by
default.
@param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
@param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
@throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this
array indices or when `startIndex > endIndex`.
@throws IndexOutOfBoundsException when the subrange
doesn't fit into the [destination] array starting at the specified [destinationOffset],
or when that index is out of the
[destination] array indices range.
@return the [destination] array.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")
public
actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0,
endIndex: Int = size): FloatArray {
    arrayCopy(this.unsafeCast<Array<Float>>(),
destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)
    return destination
}

* Copies this array or its subrange into the [destination] array and returns that array.
It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
@param destination the array to copy to.
@param destinationOffset the position in the [destination] array to
copy to, 0 by default.
@param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
@param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
@throws
IndexOutOfBoundsException
or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when
`startIndex > endIndex`.
@throws IndexOutOfBoundsException when the subrange doesn't fit into the
[destination] array starting at the specified [destinationOffset],
or when that index is out of the [destination]
array indices range.
@return the [destination] array.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")
public actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int
= 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {
    arrayCopy(this.unsafeCast<Array<Double>>(),
destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)
    return
destination
}

* Copies this array or its subrange into the [destination] array and returns that array.
It's allowed to pass the same array in the [destination] and even specify
the subrange so that it overlaps with the destination range.
@param destination the array to copy to.
@param destinationOffset the position in the [destination] array to copy to, 0 by default.
@param startIndex the
beginning (inclusive) of the subrange to copy, 0 by default.
@param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.
@throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.
@throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],
or when that index is out of the [destination] array indices range.
@return the [destination] array.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")
public actual inline fun BooleanArray.copyInto(destination:
BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {
    arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset,
startIndex, endIndex)
    return destination
}

* Copies this array or its subrange into the [destination]
array and returns that array.
It's allowed to pass the same array in the [destination] and even specify the
subrange so that it overlaps with the destination range.
@param destination the array to copy to.

```

@param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n

\* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("\n\nACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {\n    arrayCopy(this.unsafeCast<Array<Char>>(), destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n
```

\* Returns new array which is a copy of the original array.\n \* \n \* @sample

```
samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n * @Suppress("\n\nACTUAL_WITHOUT_EXPECT", "\n\nNOTHING_TO_INLINE")\npublic actual inline fun <T> Array<out T>.copyOf(): Array<T> {\n    return this.asDynamic().slice()\n}\n\n/**\n
```

\* Returns new array which is a copy of the original array.\n \* \n \* @sample

```
samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n * @Suppress("\n\nNOTHING_TO_INLINE")\npublic actual inline fun ByteArray.copyOfOf(): ByteArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
```

```
samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n * @Suppress("\n\nNOTHING_TO_INLINE")\npublic actual inline fun ShortArray.copyOfOf(): ShortArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
```

```
samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n * @Suppress("\n\nNOTHING_TO_INLINE")\npublic actual inline fun IntArray.copyOfOf(): IntArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
```

```
*\npublic actual fun LongArray.copyOfOf(): LongArray
```

```
{\n    return withType("LongArray", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
```

```
*\n@Suppress("\n\nNOTHING_TO_INLINE")\npublic actual inline fun FloatArray.copyOfOf(): FloatArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
```

```
samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n * @Suppress("\n\nNOTHING_TO_INLINE")\npublic actual inline fun DoubleArray.copyOfOf(): DoubleArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
```

```
samples.collections.Arrays.CopyOfOperations.copyOfOf\n * \n * public actual fun BooleanArray.copyOfOf():
```

```
BooleanArray {\n    return withType("BooleanArray", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
```

```
*\npublic actual fun CharArray.copyOfOf(): CharArray {\n    return withType("CharArray",
```

```
this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * \n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * \n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample
```

```
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n * \n * public actual fun
```

```
ByteArray.copyOfOf(newSize: Int): ByteArray {\n    require(newSize >= 0) { "Invalid new array size: $newSize." }\n    return fillFrom(this, ByteArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * \n * The copy is either truncated or padded at the end
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with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * \n * - If [newSize] is greater than the size of the original array, the extra elements in the
```

copy array are filled with zero values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^\\npublic actual fun  
ShortArray.copyOf(newSize: Int): ShortArray {\n require(newSize >= 0) { \"Invalid new array size: \$newSize.\" }\n return fillFrom(this, ShortArray(newSize))\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^\\npublic actual fun  
IntArray.copyOf(newSize: Int): IntArray {\n require(newSize >= 0) { \"Invalid new array size: \$newSize.\" }\n return fillFrom(this, IntArray(newSize))\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^\\npublic actual fun  
LongArray.copyOf(newSize: Int): LongArray {\n require(newSize >= 0) { \"Invalid new array size: \$newSize.\" }\n return withType(\"LongArray\", arrayCopyResize(this, newSize, 0L))\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^\\npublic actual fun  
FloatArray.copyOf(newSize: Int): FloatArray {\n require(newSize >= 0) { \"Invalid new array size: \$newSize.\" }\n return fillFrom(this, FloatArray(newSize))\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^\\npublic actual fun  
DoubleArray.copyOf(newSize: Int): DoubleArray {\n require(newSize >= 0) { \"Invalid new array size: \$newSize.\" }\n return fillFrom(this, DoubleArray(newSize))\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with `false` values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^\\npublic actual fun  
BooleanArray.copyOf(newSize: Int): BooleanArray {\n require(newSize >= 0) { \"Invalid new array size: \$newSize.\" }\n return withType(\"BooleanArray\", arrayCopyResize(this, newSize, false))\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with null char (`\\u0000`) values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\\u0000`) values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^\\npublic actual fun  
CharArray.copyOf(newSize: Int): CharArray {\n require(newSize >= 0) { \"Invalid new array size: \$newSize.\" }\n return withType(\"CharArray\", fillFrom(this, CharArray(newSize)))\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given





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copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\npublic actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic
actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return withType("<code>BooleanArray</code>",
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified
range of the original array.\n * \n * @param
fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n
*\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun
CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return withType("<code>CharArray</code>",
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified
[element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param
toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is
greater than [toIndex].\n
*\n\n@SinceKotlin("1.3")\n@Suppress("<code>ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS</code>")\npublic
actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n
* Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n\n@SinceKotlin("1.3")\n@Suppress("<code>ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS</code>")\npublic
actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n    nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the
specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n *
@param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n\n@SinceKotlin("1.3")\n@Suppress("<code>ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS</code>")\npublic
actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n
* Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param
toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n\n@SinceKotlin("1.3")\n@Suppress("<code>ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS</code>")\npublic
actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\n

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AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n\n*\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline operator fun <T> Array<out T>.plus(element: T): Array<T> {\n  return this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n\n*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ByteArray.plus(element: Byte): ByteArray {\n  return plus(byteArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements

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of the original array and then the given [element].

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*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ShortArray.plus(element: Short): ShortArray {
    return plus(shortArrayOf(element))
}
*\n * Returns an array containing all elements of the original array and then the given [element].
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun IntArray.plus(element: Int): IntArray {
    return plus(intArrayOf(element))
}
*\n * Returns an array containing all elements of the original array and then the given [element].
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun LongArray.plus(element: Long): LongArray {
    return plus(longArrayOf(element))
}
*\n * Returns an array containing all elements of the original array and then the given [element].
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun FloatArray.plus(element: Float): FloatArray {
    return plus(floatArrayOf(element))
}
*\n * Returns an array containing all elements of the original array and then the given [element].
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun DoubleArray.plus(element: Double): DoubleArray {
    return plus(doubleArrayOf(element))
}
*\n * Returns an array containing all elements of the original array and then the given [element].
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun BooleanArray.plus(element: Boolean): BooleanArray {
    return plus(booleanArrayOf(element))
}
*\n * Returns an array containing all elements of the original array and then the given [element].
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun CharArray.plus(element: Char): CharArray {
    return plus(charArrayOf(element))
}
*\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\npublic actual operator fun <T> Array<out T>.plus(elements: Collection<T>): Array<T> {
    return arrayPlusCollection(this, elements)
}
*\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
*\npublic actual operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}
*\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
*\npublic actual operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}
*\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
*\npublic actual operator fun IntArray.plus(elements: Collection<Int>): IntArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}
*\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
*\npublic actual operator fun LongArray.plus(elements: Collection<Long>): LongArray {
    return arrayPlusCollection(this, elements)
}
*\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
*\npublic actual operator fun FloatArray.plus(elements: Collection<Float>): FloatArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}
*\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
*\npublic actual operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}
*\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
*\npublic actual operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray {
    return arrayPlusCollection(this, elements)
}
*\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
*\npublic actual operator fun CharArray.plus(elements: Collection<Char>): CharArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}
*\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
*\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline operator fun <T> Array<out T>.plus(elements: Array<out T>): Array<T> {
    return this.asDynamic().concat(elements)
}
*\n * Returns an array containing all elements of the original array and then all elements of the given [elements]

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array.\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ByteArray.plus(elements:
ByteArray): ByteArray {\n    return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing
all elements of the original array and then all elements of the given [elements] array.\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ShortArray.plus(elements:
ShortArray): ShortArray {\n    return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] array.\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun IntArray.plus(elements: IntArray):
IntArray {\n    return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of
the original array and then all elements of the given [elements] array.\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun LongArray.plus(elements:
LongArray): LongArray {\n    return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] array.\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun FloatArray.plus(elements:
FloatArray): FloatArray {\n    return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing
all elements of the original array and then all elements of the given [elements] array.\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun DoubleArray.plus(elements:
DoubleArray): DoubleArray {\n    return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] array.\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun BooleanArray.plus(elements:
BooleanArray): BooleanArray {\n    return primitiveArrayConcat(this,
elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the
given [elements] array.\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun
CharArray.plus(elements: CharArray): CharArray {\n    return primitiveArrayConcat(this, elements)\n}\n\n/**\n *
Returns an array containing all elements of the original array and then the given [element].\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline fun <T>
Array<out T>.plusElement(element: T): Array<T> {\n    return
this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun
IntArray.sort(): Unit {\n    definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\npublic actual fun LongArray.sort(): Unit {\n
@Suppress("DEPRECATION")\n    if (size > 1) sort { a: Long, b: Long -> a.compareTo(b) }\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun
ByteArray.sort(): Unit {\n    definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun
ShortArray.sort(): Unit {\n    definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun
DoubleArray.sort(): Unit {\n    definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun
FloatArray.sort(): Unit {\n    definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@library("primitiveArraySort")\npublic actual fun CharArray.sort(): Unit {\n    definedExternally\n}\n\n/**\n *
Sorts the array in-place according to the natural order of its elements.\n * \n * The sort is _stable_. It means that
equal elements preserve their order relative to each other after sorting.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArrayOfComparable\n
*\npublic actual fun <T : Comparable<T>>
Array<out T>.sort(): Unit {\n    if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place according to the
order specified by the given [comparison] function.\n * \n * The sort is _stable_. It means that equal elements
preserve their order relative to each other after sorting.\n
*\n@Deprecated("Use sortWith instead",

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ReplaceWith("this.sortWith(Comparator(comparison))"))\n@DeprecatedSinceKotlin(warningSince =
"1.6")\npublic fun <T> Array<out T>.sort(comparison: (a: T, b: T) -> Int): Unit {\n  if (size > 1)
sortArrayWith(this, comparison)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by
default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  sortArrayWith(this, fromIndex, toIndex,
naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n
* \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the
range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex]
is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ByteArray>()\n  subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size
of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ShortArray>()\n  subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<IntArray>()\n  subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  sortArrayWith(this.unsafeCast<Array<Long>>(),
fromIndex, toIndex, naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex

```

the start of the range (inclusive) to sort, 0 by default.\n \* @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \* \n \* @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n

```

*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n    val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<FloatArray>()\n
subarray.sort()\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<DoubleArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by
default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<CharArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts the
array in-place according to the order specified by the given [comparison] function.\n * \n * @Deprecated("Use other
sorting functions from
the Standard Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) -> Int): Unit {\n
nativeSort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n * \n * @Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sort(noinline comparison: (a: Short, b: Short) -> Int): Unit {\n    nativeSort(comparison)\n}\n\n/**\n *
Sorts the array in-place according to the order specified by the given [comparison] function.\n
*\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {\n    nativeSort(comparison)\n}\n\n/**\n * Sorts
the array in-place according to the order specified by the given [comparison] function.\n * \n * @Deprecated("Use
other sorting functions from the Standard Library")\n@DeprecatedSinceKotlin(warningSince =
"1.6")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sort(noinline comparison: (a: Long, b: Long) ->
Int): Unit {\n    nativeSort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the
given [comparison] function.\n * \n * @Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {\n    nativeSort(comparison)\n}\n\n/**\n *
Sorts the array in-place according to the order specified by the given [comparison] function.\n
*\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic

```

```

inline fun DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> Int): Unit {
    nativeSort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given
 * [comparison] function.
 */
@Deprecated("Use other sorting functions from the Standard Library")
@DeprecatedSinceKotlin(warningSince = "1.6")
@kotlin.internal.InlineOnly
public inline fun CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {
    nativeSort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given [comparator].
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit {
    if (size > 1) sortArrayWith(this, comparator)
}

/**
 * Sorts a range in the array in-place with the given [comparator].
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
@param fromIndex the start of the range (inclusive) to sort, 0 by default.
@param toIndex the end of the range (exclusive) to sort, size of this array by default.
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
*/
@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    sortArrayWith(this, fromIndex, toIndex, comparator)
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
public actual fun ByteArray.toTypedArray(): Array<Byte> {
    return js("[]").slice.call(this)
}

/**
 * Returns
 * a *typed* object array containing all of the elements of this primitive array.
 */
public actual fun ShortArray.toTypedArray(): Array<Short> {
    return js("[]").slice.call(this)
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
public actual fun IntArray.toTypedArray(): Array<Int> {
    return js("[]").slice.call(this)
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
public actual fun LongArray.toTypedArray(): Array<Long> {
    return js("[]").slice.call(this)
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
public actual fun FloatArray.toTypedArray(): Array<Float> {
    return js("[]").slice.call(this)
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
public actual fun DoubleArray.toTypedArray(): Array<Double> {
    return js("[]").slice.call(this)
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
public actual fun BooleanArray.toTypedArray(): Array<Boolean> {
    return js("[]").slice.call(this)
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
public actual fun CharArray.toTypedArray(): Array<Char> {
    return Array(size) { index -> this[index] }
}

/**
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmName("ComparisonsKt")
@file:kotlin.jvm.JvmMultifileClass
package kotlin.comparisons

/**
 * Compares two values using the specified functions [selectors] to calculate the result of the comparison.
 * The functions are called sequentially, receive the given values [a] and [b] and return [Comparable] objects.
 *
 * As soon as the [Comparable] instances returned by a function for [a] and [b] values do not compare as equal, the result of that comparison is returned.
 */
@sample
samples.comparisons.Comparisons.compareValuesByWithSelectors

/**
 * Compares two values using the specified functions [selectors] to calculate the result of the comparison.
 * The function is applied to
 */
public fun <T> compareValuesBy(a: T, b: T, vararg selectors: (T) -> Comparable<*>?): Int {
    require(selectors.size > 0)
    return compareValuesByImpl(a, b, selectors)
}

private fun <T> compareValuesByImpl(a: T, b: T, selectors: Array<out (T) -> Comparable<*>?): Int {
    for (fn in selectors) {
        val v1 = fn(a)
        val v2 = fn(b)
        val diff = compareValues(v1, v2)
        if (diff != 0) return diff
    }
    return 0
}

/**
 * Compares two values using the specified [selector] function to calculate the result of the comparison.
 * The function is applied to
 */

```

the given values [a] and [b] and return [Comparable] objects.

\* The result of comparison of these [Comparable] instances is returned.

```

@sample samples.comparisons.Comparisons.compareValuesByWithSingleSelector
*/n@kotlin.internal.InlineOnly\npublic inline fun <T> compareValuesBy(a: T, b: T, selector: (T) ->
Comparable<*>?): Int {
    return compareValues(selector(a), selector(b))
}

```

\* Compares two values using the specified [selector] function to calculate the result of the comparison.

\* The function is applied to the given values [a] and [b] and return objects of type K which are then being

\* compared with the given [comparator].

```

@sample samples.comparisons.Comparisons.compareValuesByWithComparator
*/n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareValuesBy(a: T, b: T, comparator: Comparator<in K>, selector: (T) -> K): Int {
    return comparator.compare(selector(a), selector(b))
}

```

//// Not so useful without type inference for receiver of expression

```

compareValuesWith(v1, v2, compareBy { it.prop1 }
thenByDescending { it.prop2 })

```

//// \* Compares two values using the specified [comparator].

```

*/n// @Suppress("NOTHING_TO_INLINE")\npublic inline fun <T> compareValuesWith(a: T, b: T, comparator: Comparator<T>): Int = comparator.compare(a, b)

```

\* Compares two nullable [Comparable] values. Null is considered less than any value.

```

@sample samples.comparisons.Comparisons.compareValues
*/npublic fun <T : Comparable<*>> compareValues(a: T?, b: T?): Int {
    if (a === b) return 0
    if (a == null) return -1
    if (b == null) return 1
}

```

@Suppress("UNCHECKED\_CAST")

```

return (a as Comparable<Any>).compareTo(b)
}

```

\* Creates a comparator using the sequence of functions to calculate a result of comparison.

\* The functions are called sequentially, receive the given values `a` and `b` and return [Comparable] objects. As soon as the [Comparable] instances returned by a function for `a` and `b` values do not

\* compare as equal, the result of that comparison is returned from the [Comparator].

```

@sample samples.comparisons.Comparisons.compareByWithSelectors
*/npublic fun <T> compareBy(vararg selectors: (T) -> Comparable<*>?): Comparator<T> {
    require(selectors.size > 0)
    return Comparator { a, b -> compareValuesByImpl(a, b, selectors) }
}

```

\* Creates a comparator using the function to transform value to a [Comparable] instance for comparison.

```

@sample samples.comparisons.Comparisons.compareByWithSingleSelector
*/n@kotlin.internal.InlineOnly\npublic inline fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =
    Comparator { a, b -> compareValuesBy(a, b, selector) }

```

\* Creates a comparator using the [selector] function to transform values being compared and then applying

\* the specified [comparator] to compare transformed values.

```

@sample samples.comparisons.Comparisons.compareByWithComparator
*/n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =
    Comparator { a, b -> compareValuesBy(a, b, comparator, selector) }

```

\* Creates a descending comparator using the function to transform value to a [Comparable] instance for comparison.

```

@sample samples.comparisons.Comparisons.compareByDescendingWithSingleSelector
*/n@kotlin.internal.InlineOnly\npublic inline fun <T> compareByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =
    Comparator { a, b -> compareValuesBy(b, a, selector) }

```

\* Creates a descending comparator using the [selector] function to transform values being compared and then applying

\* the specified [comparator] to compare transformed values.

\* Note that an order of [comparator] is reversed by this wrapper.

```

@sample samples.comparisons.Comparisons.compareByDescendingWithComparator
*/n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =
    Comparator { a, b -> compareValuesBy(b, a, comparator, selector) }

```

\* Creates a comparator comparing values after the primary comparator defined them equal. It uses

\* the function to transform value to a [Comparable] instance for comparison.

```

@sample samples.comparisons.Comparisons.thenBy
*/n@kotlin.internal.InlineOnly\npublic inline fun <T> Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@thenBy.compare(a, b)
        if (previousCompare != 0) previousCompare else compareValuesBy(a, b,

```



```

selector)\n } \n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal.
It uses\n * the [selector] function to transform values and then compares them with the given [comparator].\n *\n * @sample samples.comparisons.Comparisons.thenByWithComparator\n */\n@kotlin.internal.InlineOnly\npublic
inline fun <T, K> Comparator<T>.thenBy(comparator:
    Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n    Comparator { a, b ->\n        val
previousCompare = this@thenBy.compare(a, b)\n        if (previousCompare != 0) previousCompare else
compareValuesBy(a, b, comparator, selector)\n    } \n\n/**\n * Creates a descending comparator using the primary
comparator and\n * the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample
samples.comparisons.Comparisons.thenByDescending\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n
    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a, b)\n        if
(previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\n    } \n\n/**\n * Creates a
descending comparator comparing values after the primary comparator defined them equal. It uses\n * the [selector]
function to transform values and then compares
    them with the given [comparator].\n *\n * @sample
samples.comparisons.Comparisons.thenByDescendingWithComparator\n */\n@kotlin.internal.InlineOnly\npublic
inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) ->
K): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a,
b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector)\n    }
\n\n/**\n * Creates a comparator using the primary comparator and function to calculate a result of comparison.\n
*\n * @sample samples.comparisons.Comparisons.thenComparator\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =\n
    Comparator { a, b ->\n        val previousCompare = this@thenComparator.compare(a, b)\n        if (previousCompare
!= 0) previousCompare else comparison(a, b)\n    } \n\n/**\n * Combines this
comparator and the given [comparator] such that the latter is applied only\n * when the former considered values
equal.\n *\n * @sample samples.comparisons.Comparisons.then\n */\n@kotlin.internal.InlineOnly\npublic infix fun <T>
Comparator<T>.then(comparator: Comparator<in T>): Comparator<T> =\n    Comparator { a, b ->\n        val
previousCompare = this@then.compare(a, b)\n        if (previousCompare != 0) previousCompare else
comparator.compare(a, b)\n    } \n\n/**\n * Combines this comparator and the given [comparator] such that the latter
is applied only\n * when the former considered values equal.\n *\n * @sample
samples.comparisons.Comparisons.thenDescending\n */\n@kotlin.internal.InlineOnly\npublic infix fun <T>
Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =\n    Comparator<T> { a, b -
->\n        val previousCompare = this@thenDescending.compare(a, b)\n        if (previousCompare != 0)
previousCompare else comparator.compare(b, a)\n    } \n\n// Not so useful without type inference for receiver of
expression\n\n
* Extends the given [comparator] of non-nullable values to a comparator of nullable values\n * considering `null`
value less than any other value.\n * Non-null values are compared with the provided [comparator].\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\n@kotlin.internal.InlineOnly\npublic fun <T : Any>
nullsFirst(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n        when {\n            a
=== b -> 0\n            a == null -> -1\n            b == null -> 1\n            else -> comparator.compare(a, b)\n        }\n    } \n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value less than any other
value.\n * Non-null values are compared according to their [natural order][naturalOrder].\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun
<T : Comparable<T>> nullsFirst(): Comparator<T?> = nullsFirst(naturalOrder())\n\n/**\n * Extends the
given [comparator] of non-nullable values to a comparator of nullable values\n * considering `null` value greater
than any other value.\n * Non-null values are compared with the provided [comparator].\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\n@kotlin.internal.InlineOnly\npublic fun <T : Any>
nullsLast(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n        when {\n            a

```



```

    callsInPlace(block, InvocationKind.EXACTLY_ONCE) } return block() }
}

* Calls the specified function [block] with the given [receiver] as its receiver and returns its result.
* For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).

@kotlin.internal.InlineOnly
public inline fun <T, R> with(receiver: T, block: T.() -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return receiver.block()
}

* Calls the specified function [block] with `this` value as its receiver and returns `this` value.
* For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).

@kotlin.internal.InlineOnly
public inline fun <T> T.apply(block: T.() -> Unit): T {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    block()
    return this
}

* Calls the specified function [block] with `this` value as its argument and returns `this` value.
* For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).

@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun <T> T.also(block: (T) -> Unit): T {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    block(this)
    return this
}

* Calls the specified function [block] with `this` value as its argument and returns its result.
* For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).

@kotlin.internal.InlineOnly
public inline fun <T, R> T.let(block: (T) -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block(this)
}

* Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.
* For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).

@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {
    contract {
        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
    }
    return if (predicate(this)) this else null
}

* Returns `this` value if it _does not_ satisfy the given [predicate] or `null`, if it does.
* For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).

@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {
    contract {
        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
    }
    return if (!predicate(this)) this else null
}

* Executes the given function [action] specified number of [times].
* A zero-based index of current iteration is passed as a parameter to [action].
* @sample samples.misc.ControlFlow.repeat

@kotlin.internal.InlineOnly
public inline fun repeat(times: Int, action: (Int) -> Unit) {
    contract {
        callsInPlace(action)
    }
    for (index in 0 until times) {
        action(index)
    }
}

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NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt. See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib/nimpor kotlin.js.

* Returns the greater of two values.
* If values are equal, returns the first one.

@SinceKotlin("1.1")
public actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {
    return if (a >= b) a else b
}

* Returns the greater of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun maxOf(a: Byte, b: Byte): Byte {
    return maxOf(a.toInt(), b.toInt()).unsafeCast<Byte>()
}

* Returns the greater of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun maxOf(a: Short, b: Short): Short {
    return maxOf(a.toInt(), b.toInt()).unsafeCast<Short>()
}

* Returns the greater of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun maxOf(a: Int, b: Int): Int {
    return JsMath.max(a, b)
}

* Returns the greater of two values.

@SinceKotlin("1.1")
@Suppress("NOTHING_TO_INLINE")
public actual inline fun maxOf(a: Long, b: Long): Long {
    return if (a >= b) a else b
}

* Returns the greater of two values.
* If either value

```

is `NaN`,

```

returns `NaN`.n *@SinceKotlin("1.1")n@kotlin.internal.InlineOnlynpublic actual inline fun maxOf(a: Float,
b: Float): Float {n    return JsMath.max(a, b)n}n/n/**n * Returns the greater of two values.n * n * If either value
is `NaN`, returns `NaN`.n *@SinceKotlin("1.1")n@kotlin.internal.InlineOnlynpublic actual inline fun
maxOf(a: Double, b: Double): Double {n    return JsMath.max(a, b)n}n/n/**n * Returns the greater of three
values.n * n * If there are multiple equal maximal values, returns the first of them.n
*@n@SinceKotlin("1.1")npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {n    return
maxOf(a, maxOf(b, c))n}n/n/**n * Returns the greater of three values.n
*@n@SinceKotlin("1.1")n@kotlin.internal.InlineOnlynpublic actual inline fun maxOf(a: Byte, b: Byte, c: Byte):
Byte {n    return JsMath.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()n}n/n/**n * Returns the greater of
three values.n *@n@SinceKotlin("1.1")n@kotlin.internal.InlineOnlynpublic
actual inline fun maxOf(a: Short, b: Short, c: Short): Short {n    return JsMath.max(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Short>()n}n/n/**n * Returns the greater of three values.n
*@n@SinceKotlin("1.1")n@kotlin.internal.InlineOnlynpublic actual inline fun maxOf(a: Int, b: Int, c: Int): Int {n
    return JsMath.max(a, b, c)n}n/n/**n * Returns the greater of three values.n
*@n@SinceKotlin("1.1")n@kotlin.internal.InlineOnlynpublic actual inline fun maxOf(a: Long, b: Long, c: Long):
Long {n    return maxOf(a, maxOf(b, c))n}n/n/**n * Returns the greater of three values.n * n * If any value is
`NaN`, returns `NaN`.n *@n@SinceKotlin("1.1")n@kotlin.internal.InlineOnlynpublic actual inline fun maxOf(a:
Float, b: Float, c: Float): Float {n    return JsMath.max(a, b, c)n}n/n/**n * Returns the greater of three values.n *
n * If any value is `NaN`, returns `NaN`.n *@n@SinceKotlin("1.1")n@kotlin.internal.InlineOnlynpublic
actual inline fun maxOf(a: Double, b: Double, c: Double): Double {n    return JsMath.max(a, b, c)n}n/n/**n *
Returns the greater of the given values.n * n * If there are multiple equal maximal values, returns the first of
them.n *@n@SinceKotlin("1.4")npublic actual fun <T : Comparable<T>> maxOf(a: T, vararg other: T): T {n
    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}n/n/**n * Returns the greater of the given
values.n *@n@SinceKotlin("1.4")npublic actual fun maxOf(a: Byte, vararg other: Byte): Byte {n    var max = a\n
    for (e in other) max = maxOf(max, e)\n    return max\n}n/n/**n * Returns the greater of the given values.n
*@n@SinceKotlin("1.4")npublic actual fun maxOf(a: Short, vararg other: Short): Short {n    var max = a\n    for
(e in other) max = maxOf(max, e)\n    return max\n}n/n/**n * Returns the greater of the given values.n
*@n@SinceKotlin("1.4")npublic actual fun maxOf(a: Int, vararg other: Int):
Int {n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}n/n/**n * Returns the greater of
the given values.n *@n@SinceKotlin("1.4")npublic actual fun maxOf(a: Long, vararg other: Long): Long {n
    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}n/n/**n * Returns the greater of the given
values.n * n * If any value is `NaN`, returns `NaN`.n *@n@SinceKotlin("1.4")npublic actual fun maxOf(a:
Float, vararg other: Float): Float {n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return
max\n}n/n/**n * Returns the greater of the given values.n * n * If any value is `NaN`, returns `NaN`.n
*@n@SinceKotlin("1.4")npublic actual fun maxOf(a: Double, vararg other: Double): Double {n    var max = a\n
    for (e in other) max = maxOf(max, e)\n    return max\n}n/n/**n * Returns the smaller of two values.n * n * If
values are equal, returns the first one.n *@n@SinceKotlin("1.1")npublic actual fun <T
: Comparable<T>> minOf(a: T, b: T): T {n    return if (a <= b) a else b\n}n/n/**n * Returns the smaller of two
values.n *@n@SinceKotlin("1.1")n@kotlin.internal.InlineOnlynpublic actual inline fun minOf(a: Byte, b: Byte):
Byte {n    return minOf(a.toInt(), b.toInt()).unsafeCast<Byte>()n}n/n/**n * Returns the smaller of two values.n
*@n@SinceKotlin("1.1")n@kotlin.internal.InlineOnlynpublic actual inline fun minOf(a: Short, b: Short): Short
{n    return minOf(a.toInt(), b.toInt()).unsafeCast<Short>()n}n/n/**n * Returns the smaller of two values.n
*@n@SinceKotlin("1.1")n@kotlin.internal.InlineOnlynpublic actual inline fun minOf(a: Int, b: Int): Int {n
    return JsMath.min(a, b)n}n/n/**n * Returns the smaller of two values.n
*@n@SinceKotlin("1.1")n@Suppress("NOTHING_TO_INLINE")npublic actual inline fun minOf(a: Long, b:
Long): Long {n    return if (a <= b) a else b\n}n/n/**n * Returns the smaller of two values.n * n * If either value
is `NaN`,

```

```

returns NaN.

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Float,
b: Float): Float {
    return JsMath.min(a, b)
}

/**
 * Returns the smaller of two values.
 * If either value
is NaN, returns NaN.

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun
minOf(a: Double, b: Double): Double {
    return JsMath.min(a, b)
}

/**
 * Returns the smaller of three
values.
 * If there are multiple equal minimal values, returns the first of them.

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {
    return minOf(a,
minOf(b, c))
}

/**
 * Returns the smaller of three values.

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Byte, b: Byte, c: Byte):
Byte {
    return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()
}

/**
 * Returns the smaller of
three values.

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public
actual inline fun minOf(a: Short, b: Short, c: Short): Short {
    return JsMath.min(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Short>()
}

/**
 * Returns the smaller of three values.

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Int, b: Int, c: Int): Int {
    return JsMath.min(a, b, c)
}

/**
 * Returns the smaller of three values.

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Long, b: Long, c: Long):
Long {
    return minOf(a, minOf(b, c))
}

/**
 * Returns the smaller of three values.
 * If any value is
NaN, returns NaN.

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a:
Float, b: Float, c: Float): Float {
    return JsMath.min(a, b, c)
}

/**
 * Returns the smaller of three values.
 * If any value is
NaN, returns NaN.

@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public
actual inline fun minOf(a: Double, b: Double, c: Double): Double {
    return JsMath.min(a, b, c)
}

/**
 * Returns the smaller of the given values.
 * If there are multiple equal minimal values, returns the first of
them.

@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public actual fun <T : Comparable<T>> minOf(a: T, vararg other: T): T {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given
values.

@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public actual fun minOf(a: Byte, vararg other: Byte): Byte {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.

@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public actual fun minOf(a: Short, vararg other: Short): Short {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.

@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public actual fun minOf(a: Int, vararg other: Int): Int
{
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the
given values.

@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public actual fun minOf(a: Long, vararg other: Long): Long {
    var
min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given
values.
 * If any value is
NaN, returns NaN.

@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public actual fun minOf(a: Float,
vararg other: Float): Float {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 * If any value is
NaN, returns
NaN.

@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public actual fun minOf(a: Double, vararg other: Double): Double {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

"

/**
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Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.

// Auto-generated file. DO NOT
EDIT!

package kotlin
import kotlin.experimental.*
import
kotlin.jvm.*

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)@JvmInline
public value class ULong @kotlin.internal.IntrinsicConstEvaluation @PublishedApi internal
constructor(@PublishedApi internal val data: Long) : Comparable<ULong> {

    companion object {

        /**
         * A constant holding the minimum value an instance of ULong can have.

         public const val
MIN_VALUE: ULong = ULong(0)

        /**
         * A constant holding the maximum value an instance of
ULong can have.

         public const val MAX_VALUE: ULong = ULong(-1)

        /**
         * The
number of bytes used to represent an instance of ULong in a binary form.

         public const val
SIZE_BYTES: Int = 8

        /**
         * The number of bits used to represent

```

```

an instance of ULong in a binary form.\n    */\n    public const val SIZE_BITS: Int = 64\n    }\n\n    /**\n    *
Compares this value with the specified value for order.\n    * Returns zero if this value is equal to the specified other
value, a negative number if it's less than other,\n    * or a positive number if it's greater than other.\n    */\n
@kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UByte): Int =
this.compareTo(other.toULong())\n\n    /**\n    * Compares this value with the specified value for order.\n    *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n    * or a
positive number if it's greater than other.\n    */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
compareTo(other: UShort): Int = this.compareTo(other.toULong())\n\n    /**\n    * Compares this value with the
specified value for order.\n    * Returns zero if this value is equal
to the specified other value, a negative number if it's less than other,\n    * or a positive number if it's greater than
other.\n    */\n    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UInt): Int =
this.compareTo(other.toULong())\n\n    /**\n    * Compares this value with the specified value for order.\n    *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n    * or a
positive number if it's greater than other.\n    */\n    @kotlin.internal.InlineOnly\n
@Suppress("OVERRIDE_BY_INLINE")\n    public override inline operator fun compareTo(other: ULong): Int =
ulongCompare(this.data, other.data)\n\n    /** Adds the other value to this value. */\n
@kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())\n
/** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other:
UShort): ULong = this.plus(other.toULong())\n\n    /** Adds the other value to this value. */\n
@kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())\n
/** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other:
ULong): ULong = ULong(this.data.plus(other.data))\n\n    /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UByte): ULong =
this.minus(other.toULong())\n\n    /** Subtracts the other value from this value. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\n\n    /** Subtracts the other
value from this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UInt): ULong =
this.minus(other.toULong())\n\n    /** Subtracts the other value from this value. */\n    @kotlin.internal.InlineOnly\n
    public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\n\n    /** Multiplies
this value by the other value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UByte):
ULong = this.times(other.toULong())\n\n    /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n    public inline operator fun times(other: UShort): ULong =
this.times(other.toULong())\n\n    /** Multiplies this value by the other value. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UInt): ULong = this.times(other.toULong())\n\n    /** Multiplies this value by
the other value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: ULong): ULong =
ULong(this.data.times(other.data))\n\n    /** Divides this value by the other value, truncating the result to an integer
that is closer to zero. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun div(other:
UByte): ULong = this.div(other.toULong())\n\n    /** Divides this value by the other value, truncating the result to an
integer that is closer to zero. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UShort):
ULong = this.div(other.toULong())\n\n    /** Divides this value by the other value, truncating the result to an integer
that is closer to zero. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UInt): ULong =
this.div(other.toULong())\n\n    /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun div(other: ULong): ULong =
ulongDivide(this, other)\n\n    /**\n    * Calculates the remainder of truncating division of this value (dividend) by
the other value (divisor).\n    */\n    * The result is always less than the divisor.\n    */\n
@kotlin.internal.InlineOnly\n    public inline operator fun rem(other:
UByte): ULong = this.rem(other.toULong())\n\n    /**\n    * Calculates the remainder of truncating division of this
value (dividend) by the other value (divisor).\n    */\n    * The result is always less than the divisor.\n    */\n
@kotlin.internal.InlineOnly\n    public inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())\n

```

```

/**\n * Calculates the remainder of truncating division of this value (dividend) by the other value (divisor).\n
*\n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator
fun rem(other: UInt): ULong = this.rem(other.toULong())\n /**\n * Calculates the remainder of truncating
division of this value (dividend) by the other value (divisor).\n */\n * The result is always less than the divisor.\n
*/\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong =
alongRemainder(this, other)\n\n /**\n * Divides this value
by the other value, flooring the result to an integer that is closer to negative infinity.\n */\n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UByte): ULong = this.floorDiv(other.toULong())\n /**\n * Divides this value
by the other value, flooring the result to an integer that is closer to negative infinity.\n */\n * For unsigned types,
the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UShort): ULong = this.floorDiv(other.toULong())\n /**\n * Divides this value
by the other value, flooring the result to an integer that is closer to negative infinity.\n */\n * For unsigned types,
the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other:
UInt): ULong = this.floorDiv(other.toULong())\n /**\n * Divides this value by the other value, flooring the
result to an integer that is closer to negative infinity.\n */\n * For unsigned types, the results of flooring division
and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other:
ULong): ULong = div(other)\n\n /**\n * Calculates the remainder of flooring division of this value (dividend)
by the other value (divisor).\n */\n * The result is always less than the divisor.\n */\n * For unsigned types,
the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun mod(other: UByte): UByte = this.mod(other.toULong()).toUByte()\n /**\n * Calculates the
remainder of flooring division of this value (dividend) by the other value (divisor).\n */\n * The result is always
less than the divisor.\n */\n
* For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun mod(other: UShort): UShort =
this.mod(other.toULong()).toUShort()\n /**\n * Calculates the remainder of flooring division of this value
(dividend) by the other value (divisor).\n */\n * The result is always less than the divisor.\n */\n * For
unsigned types, the remainders of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt = this.mod(other.toULong()).toUInt()\n
/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n */\n
*\n * The result is always less than the divisor.\n */\n * For unsigned types, the remainders of flooring division and
truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other:
ULong): ULong = rem(other)\n\n /**\n * Returns this value incremented by one.\n */\n * @sample
samples.misc.Builtins.inc\n */\n @kotlin.internal.InlineOnly\n public inline operator fun inc(): ULong =
ULong(data.inc())\n\n /**\n * Returns this value decremented by one.\n */\n * @sample
samples.misc.Builtins.dec\n */\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): ULong =
ULong(data.dec())\n\n /**\n * Creates a range from this value to the specified [other] value.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: ULong): ULongRange =
ULongRange(this, other)\n\n /**\n * Creates a range from this value up to but excluding the specified [other]
value.\n */\n * If the [other] value is less than or equal to `this` value, then the returned range is empty.\n */\n
@SinceKotlin("1.9")\n @WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n
public inline operator fun rangeUntil(other: ULong): ULongRange = this.until(other)\n\n /**\n * Shifts this
value left by the [bitCount] number of bits.\n */\n * Note that only the six lowest-order bits of the [bitCount] are
used as the shift distance.\n */\n * The shift distance actually used is therefore always in the range `0..63`.\n */\n
@kotlin.internal.InlineOnly\n public inline infix fun shl(bitCount: Int): ULong = ULong(data shl bitCount)\n\n
/**\n * Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros.\n */\n *
Note that only the six lowest-order bits of the [bitCount] are used as the shift distance.\n */\n * The shift distance

```

```

actually used is therefore always in the range `0..63`.
    @kotlin.internal.InlineOnly
    public inline infix fun shr(bitCount: Int): ULong = ULong(data ushr bitCount)
    /** Performs a bitwise AND operation between the two values.
    @kotlin.internal.InlineOnly
    public inline infix fun and(other: ULong): ULong = ULong(this.data and other.data)
    /** Performs a bitwise OR operation between the two values.
    @kotlin.internal.InlineOnly
    public inline infix fun or(other: ULong): ULong = ULong(this.data or other.data)
    /** Performs a bitwise XOR operation between the two values.
    @kotlin.internal.InlineOnly
    public inline infix fun xor(other: ULong): ULong = ULong(this.data xor other.data)
    /** Inverts the bits in this value.
    @kotlin.internal.InlineOnly
    public inline fun inv(): ULong = ULong(data.inv())
    /**
    * Converts this [ULong] value to [Byte].
    * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents
    * the same numerical value as this `ULong`.
    * The resulting `Byte` value is represented by the least significant 8 bits of this `ULong` value.
    * Note that the resulting `Byte` value may be negative.
    @kotlin.internal.InlineOnly
    public inline fun toByte(): Byte = data.toByte()
    /**
    * Converts this [ULong] value to [Short].
    * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents
    * the same numerical value as this `ULong`.
    * The resulting `Short` value is represented by the least significant 16 bits of this `ULong` value.
    * Note that the resulting `Short` value may be negative.
    @kotlin.internal.InlineOnly
    public inline fun toShort(): Short = data.toShort()
    /**
    * Converts this [ULong] value to [Int].
    * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents
    * the same numerical value as this `ULong`.
    * The resulting `Int` value is represented by the least significant 32 bits of this `ULong` value.
    * Note that the resulting `Int` value may be negative.
    @kotlin.internal.InlineOnly
    public inline fun toInt(): Int = data.toInt()
    /**
    * Converts this [ULong] value to [Long].
    * If this value is less than or equals to [Long.MAX_VALUE], the resulting `Long` value represents
    * the same numerical value as this `ULong`. Otherwise the result is negative.
    * The resulting `Long` value has the same binary representation as this `ULong` value.
    @kotlin.internal.InlineOnly
    public inline fun toLong(): Long = data
    /**
    * Converts this [ULong] value to [UByte].
    * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents
    * the same numerical value as this `ULong`.
    * The resulting `UByte` value is represented by the least significant 8 bits of this `ULong` value.
    @kotlin.internal.InlineOnly
    public inline fun toUByte(): UByte = data.toUByte()
    /**
    * Converts this [ULong] value to [UShort].
    * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents
    * the same numerical value as this `ULong`.
    * The resulting `UShort` value is represented by the least significant 16 bits of this `ULong` value.
    @kotlin.internal.InlineOnly
    public inline fun toUShort(): UShort = data.toUShort()
    /**
    * Converts this [ULong] value to [UInt].
    * If this value is less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents
    * the same numerical value as this `ULong`.
    * The resulting `UInt` value is represented by the least significant 32 bits of this `ULong` value.
    @kotlin.internal.InlineOnly
    public inline fun toUInt(): UInt = data.toUInt()
    /**
    Returns this value.
    @kotlin.internal.InlineOnly
    public inline fun toULong(): ULong = this
    /**
    * Converts this [ULong] value to [Float].
    * The resulting value is the closest `Float` to this `ULong` value.
    * In case when this `ULong` value is exactly between two `Float`s,
    * the one with zero at least significant bit of mantissa is selected.
    @kotlin.internal.InlineOnly
    public inline fun toFloat(): Float = this.toDouble().toFloat()
    /**
    * Converts this [ULong] value to [Double].
    * The resulting value is the closest `Double` to this `ULong` value.
    * In case when this `ULong` value is exactly between two `Double`s,
    * the one with zero at least significant bit of mantissa is selected.
    @kotlin.internal.InlineOnly
    public inline fun toDouble(): Double =
    ulongToDouble(data)
    public override fun toString(): String = ulongToString(data)
    /**
    * Converts this [Byte] value to [ULong].
    * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Byte`.
    * The least significant

```



8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value, whereas the most significant 56 bits are filled with the sign bit of this value.

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Short] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Short`.\n *\n * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value, whereas the most significant 48 bits are filled with the sign bit of this value.
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Int] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Int`.\n *\n * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value, whereas the most significant 32 bits are filled with the sign bit of this value.
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Int.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Long] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long`.\n *\n * The resulting `ULong` value has the same binary representation as this `Long` value.
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Long.toULong(): ULong = ULong(this)\n/**\n * Converts this [Float] value to [ULong].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Float` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())\n/**\n * Converts this [Double] value to [ULong].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Double.toULong(): ULong = doubleToULong(this)\n"/*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
```

```
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage kotlin.collections\n\n/\n
```

NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt// See:

<https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib> // \n\nimport kotlin.random.\*\nimport

kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/\*\*\n \* Returns 1st \*element\* from the list.\n \*\n \* Throws an [IndexOutOfBoundsException] if the size of this list is less than 1.

```
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component1(): T {\n    return get(0)\n}\n/**\n * Returns 2nd *element* from the list.\n *\n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 2.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
```

```
List<T>.component2(): T {\n    return get(1)\n}\n/**\n * Returns 3rd *element* from the list.\n *\n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 3.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component3(): T {\n    return get(2)\n}\n/**\n *
```

```
Returns 4th *element* from the list.\n *\n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 4.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component4(): T {\n    return get(3)\n}\n/**\n * Returns 5th *element* from the list.\n *\n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 5.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
```

```
List<T>.component5(): T {\n    return get(4)\n}\n/**\n * Returns `true` if [element] is found in the collection.
```

```
*\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {\n    if (this is Collection)\n        return contains(element)\n    return indexOf(element) >= 0\n}\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this
```

```

collection.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n * \n\npublic fun <T>
Iterable<T>.elementAt(index:
Int): T {\n if (this is List)\n return get(index)\n return elementAtOrElse(index) { throw
IndexOutOfBoundsException("Collection doesn't contain element at index $index.\") }\n}\n\n/**\n * Returns an
element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this list.\n
*\n * @sample samples.collections.Collections.Elements.elementAt\n * \n\n@kotlin.internal.InlineOnly\npublic
inline fun <T> List<T>.elementAt(index: Int): T {\n return get(index)\n}\n\n/**\n * Returns an element at the
given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this collection.\n
*\n * @sample samples.collections.Collections.Elements.elementAtOrElse\n * \n\n@kotlin.internal.InlineOnly\npublic
inline fun <T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n if (this is List)\n return
this.getOrElse(index, defaultValue)\n if (index < 0)\n return defaultValue(index)\n val
iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element = iterator.next()\n if
(index == count++)\n return element\n }\n return defaultValue(index)\n}\n\n/**\n * Returns an element at
the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n
*\n * @sample samples.collections.Collections.Elements.elementAtOrElse\n * \n\n@kotlin.internal.InlineOnly\npublic
inline fun <T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or
`null` if the [index] is out of bounds of this collection.\n
*\n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n * \n\npublic fun <T>
Iterable<T>.elementAtOrNull(index: Int): T? {\n if (this is List)\n return this.getOrElse(index)\n if (index <
0)\n return
null\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element =
iterator.next()\n if (index == count++)\n return element\n }\n return null\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this list.\n
*\n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n * \n\n@kotlin.internal.InlineOnly\npublic inline fun
<T> List<T>.elementAtOrNull(index: Int): T? {\n return this.getOrElse(index)\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if no such element was found.\n
*\n * @sample
samples.collections.Collections.Elements.find\n * \n\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n
*\n * @sample
samples.collections.Collections.Elements.find\n * \n\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no
such element was found.\n
*\n * @sample samples.collections.Collections.Elements.find\n
*\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.findLast(predicate: (T) -> Boolean): T? {\n return
lastOrNull(predicate)\n}\n\n/**\n * Returns the first element.\n
*\n * @throws NoSuchElementException if the
collection is empty.\n
*\n\npublic fun <T> Iterable<T>.first(): T {\n when (this) {\n is List -> return
this.first()\n else -> {\n val iterator = iterator()\n if (!iterator.hasNext())\n throw
NoSuchElementException("Collection is empty.\")\n return iterator.next()\n }\n }\n}\n\n/**\n * Returns the first element.\n
*\n * @throws NoSuchElementException
if the list is empty.\n
*\n\npublic fun <T> List<T>.first(): T {\n if (isEmpty())\n throw
NoSuchElementException("List is empty.\")\n return this[0]\n}\n\n/**\n * Returns the first element matching the
given [predicate].\n
*\n * @throws [NoSuchElementException] if no such element is found.\n
*\n\npublic inline fun <T>
Iterable<T>.first(predicate: (T) -> Boolean): T {\n for (element in this) if (predicate(element)) return element\n
throw NoSuchElementException("Collection contains no element matching the predicate.\")\n}\n\n/**\n * Returns
the first non-null value produced by [transform] function being applied to elements of this collection in iteration
order,\n
*\n * or throws [NoSuchElementException] if no non-null value was produced.\n
*\n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n

```

```

*^@SinceKotlin("1.5")^@kotlin.internal.InlineOnly^public inline fun <T, R : Any>
Iterable<T>.firstNotNullOf(transform: (T) -> R?): R {
    return firstNotNullOfOrNull(transform)
    ?: throw NoSuchElementException("No element of the collection was transformed to a non-null
value.")
}
* Returns the first non-null value produced by [transform] function being applied to elements
of this collection in iteration order, or `null` if no non-null value was produced.
@sample
samples.collections.Collections.Transformations.firstNotNullOf

*^@SinceKotlin("1.5")^@kotlin.internal.InlineOnly^public inline fun <T, R : Any>
Iterable<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {
    for (element in this) {
        val result =
transform(element)
        if (result != null) {
            return result
        }
    }
    return null
}
* Returns the first element, or `null` if the collection is empty.
^public fun <T> Iterable<T>.firstOrNull(): T? {
    when (this) {
        is List -> {
            if (isEmpty())
                return null
            else
                return this[0]
        }
        else -> {
            val iterator = iterator()
            if (!iterator.hasNext())
                return null
            return iterator.next()
        }
    }
}
* Returns the first element, or `null` if the list is empty.
^public
fun <T> List<T>.firstOrNull(): T? {
    return if (isEmpty()) null else this[0]
}
* Returns the first element
matching the given [predicate], or `null` if element was not found.
^public inline fun <T>
Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {
    for (element in this) if (predicate(element)) return
element
    return null
}
* Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this list.
^@kotlin.internal.InlineOnly^public inline
fun <T> List<T>.getOrNull(index: Int, defaultValue: (Int) -> T): T? {
    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)
}
* Returns
an element at the given [index] or `null` if the [index] is out of bounds of this list.
@sample
samples.collections.Collections.Elements.getOrNull
^public fun <T> List<T>.getOrNull(index: Int): T? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}
* Returns first index of [element], or -
1 if the collection does not contain element.
^public fun <@kotlin.internal.OnlyInputTypes T>
Iterable<T>.indexOf(element: T): Int {
    if (this is List) return this.indexOf(element)
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (element == item)
            return index
        index++
    }
    return -1
}
* Returns first index of [element], or -1 if the list does not contain element.
^@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases
^public fun <@kotlin.internal.OnlyInputTypes T> List<T>.indexOf(element: T): Int {
    return
indexOf(element)
}
* Returns index of the first element matching the given [predicate], or -1 if the
collection does not contain such element.
^public inline fun <T> Iterable<T>.indexOfFirst(predicate: (T) ->
Boolean): Int {
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if
(predicate(item))
            return index
        index++
    }
    return -1
}
* Returns index of the first
element matching the given [predicate], or -1 if the list does not contain such element.
^public inline fun <T>
List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {
    var index = 0
    for (item in this) {
        if
(predicate(item))
            return index
        index++
    }
    return -1
}
* Returns index of the last
element matching the given [predicate], or -1 if the collection does not contain such element.
^public inline fun
<T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): Int {
    var
lastIndex = -1
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if
(predicate(item))
            lastIndex = index
            index++
    }
    return lastIndex
}
* Returns index of
the last element matching the given [predicate], or -1 if the list does not contain such element.
^public inline fun
<T> List<T>.indexOfLast(predicate: (T) -> Boolean): Int {
    val iterator = this.listIterator(size)
    while
(iterator.hasPrevious()) {
        if (predicate(iterator.previous()))
            return iterator.nextIndex()
    }
    return -1
}
* Returns the last element.
@throws NoSuchElementException if the collection
is empty.
@sample
samples.collections.Collections.Elements.last
^public fun <T> Iterable<T>.last(): T
{
    when (this) {
        is List -> return this.last()
        else -> {
            val iterator = iterator()
            if
(!iterator.hasNext())

```

```

        throw NoSuchElementException("Collection is empty.")\n        var last = iterator.next()\n        while
(iterator.hasNext())\n            last = iterator.next()\n            return last\n    }\n}\n\n/**\n * Returns the last
element.\n * \n * @throws NoSuchElementException if the list is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.last(): T {\n    if (isEmpty())\n        throw NoSuchElementException("List is empty.")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last element
matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n *
@sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Iterable<T>.last(predicate: (T) -
> Boolean): T {\n    var last: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element))
{\n            last = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Collection contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return last as T\n}\n\n/**\n * Returns the last element matching the
given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.last(predicate: (T) -> Boolean): T {\n    val iterator = this.listIterator(size)\n    while (iterator.hasPrevious()) {\n        val element = iterator.previous()\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException("List contains no element
matching the predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the collection does not contain
element.\n * \n * @public fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {\n    if
(this is List) return this.lastIndexOf(element)\n    var lastIndex = -1\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (element == item)\n            lastIndex = index\n        index++\n    }\n    return lastIndex\n}\n\n/**\n * Returns last index of [element], or -1 if the list does not contain
element.\n * \n * @Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes
precedence in some cases\n * @public fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int
{\n    return lastIndexOf(element)\n}\n\n/**\n * Returns the last element, or `null` if the collection is empty.\n * \n *
@sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.lastOrNull(): T? {\n    when (this) {\n        is List -> return if (isEmpty()) null else this[size - 1]\n        else -> {\n            val iterator =
iterator()\n            if (iterator.hasNext())\n                return null\n            var last = iterator.next()\n            while
(iterator.hasNext())\n                last = iterator.next()\n            return last\n        }\n    }\n}\n\n/**\n * Returns the last element, or `null` if the list is empty.\n * \n *
@sample samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.lastOrNull(): T? {\n    return
if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null`
if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline
fun <T> Iterable<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n    var last: T? = null\n    for (element in this) {\n        if (predicate(element)) {\n            last = element\n        }\n    }\n    return last\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.lastOrNull(predicate: (T) ->
Boolean): T? {\n    val iterator = this.listIterator(size)\n    while (iterator.hasPrevious()) {\n        val element = iterator.previous()\n        if (predicate(element)) return
element\n    }\n    return null\n}\n\n/**\n * Returns a random element from this collection.\n * \n * @throws
NoSuchElementException if this collection is empty.\n * \n * @SinceKotlin("1.3")\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(): T {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this collection is empty.\n * \n * @SinceKotlin("1.3")\n */\npublic fun <T> Collection<T>.random(random: Random): T {\n    if (isEmpty())\n        throw NoSuchElementException("Collection is empty.")\n    return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this collection, or `null` if this collection is empty.\n * \n *
@SinceKotlin("1.4")\n */\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic

```

```

inline fun <T> Collection<T>.randomOrNull(): T? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of randomness, or `null` if this collection is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T> Collection<T>.randomOrNull(random: Random): T? {\n    if (isEmpty())\n        return null\n    return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the collection is empty or has more than one element.\n */\npublic fun <T> Iterable<T>.single(): T {\n    when (this) {\n        is List -> return this.single()\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                throw NoSuchElementException("Collection is empty.")\n            val single = iterator.next()\n            if (iterator.hasNext())\n                throw IllegalArgumentException("Collection has more than one element.")\n            return single\n        }\n    }\n}\n\n/**\n * Returns the single element, or throws an exception if the list is empty or has more than one element.\n */\npublic fun <T> List<T>.single(): T {\n    return when (size) {\n        0 -> throw NoSuchElementException("List is empty.")\n        1 -> this[0]\n        else -> throw IllegalArgumentException("List has more than one element.")\n    }\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun <T> Iterable<T>.single(predicate: (T) -> Boolean): T {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw\n                NoSuchElementException("Collection contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Collection contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as T\n}\n\n/**\n * Returns single element, or `null` if the collection is empty or has more than one element.\n */\npublic fun <T> Iterable<T>.singleOrNull(): T? {\n    when (this) {\n        is List -> return if (size == 1) this[0] else null\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                return null\n            val single = iterator.next()\n            if (iterator.hasNext())\n                return null\n            return single\n        }\n    }\n}\n\n/**\n * Returns single element, or `null` if the list is empty or has more than one element.\n */\npublic fun <T> List<T>.singleOrNull(): T? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun <T> Iterable<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * @throws IllegalArgumentException if [n] is negative.\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Iterable<T>.drop(n: Int): List<T> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    if (n == 0) return toList()\n    val list: ArrayList<T>\n    if (this is Collection<*>) {\n        val resultSize = size - n\n        if (resultSize <= 0)\n            return emptyList()\n        if (resultSize == 1)\n            return listOf(last())\n        list = ArrayList<T>(resultSize)\n        if (this is List<T>)\n            if (this is RandomAccess) {\n                for (index in n until size)\n                    list.add(this[index])\n            } else {\n                for (item in listIterator(n))\n                    list.add(item)\n            }\n        return list\n    }\n    else {\n        list = ArrayList<T>()\n        var count = 0\n        for (item in this) {\n            if (count >= n)\n                list.add(item) else ++count\n        }\n        return list.optimizeReadOnlyList()\n    }\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * @throws IllegalArgumentException if [n] is negative.\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> List<T>.dropLast(n: Int): List<T> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> List<T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n    if (!isEmpty()) {\n        val iterator = listIterator(size)\n        while (iterator.hasPrevious()) {\n            if (!predicate(iterator.previous()))\n                return

```

```

take(iterator.nextIndex() + 1)\n    }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing
all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun <T> Iterable<T>.dropWhile(predicate:
(T) -> Boolean): List<T> {\n    var yielding = false\n    val list = ArrayList<T>()\n    for (item in this)\n        if
(yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing only elements
matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline
fun <T> Iterable<T>.filter(predicate: (T) -> Boolean): List<T> {\n    return filterTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n *\npublic
inline fun <T> Iterable<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n    return
filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to
the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n
*\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterIndexedTo(destination: C, predicate:
(index: Int, T) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Returns a list containing all elements that are
instances of specified type parameter R.\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstance\n *\npublic inline fun <reified R>
Iterable<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n    return
filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all elements that are instances of specified type
parameter R to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstanceTo\n *\npublic inline fun <reified R, C :
MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination: C): C {\n    for (element in this) if (element is
R) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list containing all elements not matching the
given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline fun <T>
Iterable<T>.filterNot(predicate: (T) -> Boolean): List<T> {\n    return filterNotTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing
all elements that are not `null`.\n * \n * @sample samples.collections.Collections.Filtering.filterNotNull\n *\npublic
fun <T : Any> Iterable<T?>.filterNotNull(): List<T> {\n    return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n *
Appends all elements that are not `null` to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNullTo\n *\npublic fun <C : MutableCollection<in T>, T : Any>
Iterable<T?>.filterNotNullTo(destination: C): C {\n    for (element in this) if (element != null)
destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements not matching
the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <T, C : MutableCollection<in T>>
Iterable<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n    for (element in this) if
(!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterTo(destination: C, predicate: (T) ->
Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return
destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n *\npublic
fun <T> List<T>.slice(indices: IntRange): List<T> {\n    if (indices.isEmpty()) return listOf()\n    return
this.subList(indices.start, indices.endInclusive
+ 1).toList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n *\npublic fun <T>
List<T>.slice(indices: Iterable<Int>): List<T> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0)

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return emptyList()\n    val list = ArrayList<T>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Iterable<T>.take(n: Int): List<T> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    if (n == 0) return emptyList()\n    if (this is Collection<T>) {\n        if (n >= size) return toList()\n        if (n == 1) return listOf(first())\n    }\n    var count = 0\n    val list = ArrayList<T>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> List<T>.takeLast(n: Int): List<T> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(last())\n    val list = ArrayList<T>(n)\n    if (this is RandomAccess) {\n        for (index in size - n until size)\n            list.add(this[index])\n    } else {\n        for (item in listIterator(size - n))\n            list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> List<T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n    if (isEmpty())\n        return emptyList()\n    val iterator = listIterator(size)\n    while (iterator.hasPrevious()) {\n        if (!predicate(iterator.previous())) {\n            iterator.next()\n            val expectedSize = size - iterator.nextIndex()\n            if (expectedSize == 0) return emptyList()\n            return ArrayList<T>(expectedSize).apply {\n                while (iterator.hasNext())\n                    add(iterator.next())\n            }\n        }\n        return toList()\n    }\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Iterable<T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n    val list = ArrayList<T>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Reverses elements in the list in-place.\n */\npublic expect fun <T> MutableList<T>.reverse(): Unit\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun <T> Iterable<T>.reversed(): List<T> {\n    if (this is Collection && size <= 1) return toList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Randomly shuffles elements in this list in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n */\n@SinceKotlin("1.3")\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        this[j] = this.set(i, this[j])\n    }\n}\n\n/**\n * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {\n    if (size > 1)\n        sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n    if (size > 1)\n        sortWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {\n    sortWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {\n    if (this is Collection) {\n        if (size <= 1)\n            return this.toList()\n        @SuppressWarnings("UNCHECKED_CAST")\n        return (toArray<Comparable<T>>())\n            as Array<T>().apply { sort() }.asList()\n    }\n    return toMutableList().apply { sort() }\n}\n\n/**\n * Returns a list of

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all elements sorted according to natural sort order of the value returned by specified [selector] function. \n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting. \n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy \n \* \n public inline fun <T, R : Comparable<R>> Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareBy(selector))\n} \n \n /\*\* \n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function. \n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting. \n \* \n public inline fun <T, R : Comparable<R>> Iterable<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareByDescending(selector))\n} \n \n /\*\* \n \* Returns a list of all elements sorted descending according to their natural sort order. \n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting. \n \* \n public fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T> {\n return sortedWith(reverseOrder())\n} \n \n /\*\* \n \* Returns a list of all elements sorted according to the specified [comparator]. \n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting. \n \* \n public fun <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {\n if (this is Collection) {\n if (size <= 1) return this.toList()\n @SuppressWarnings("UNCHECKED\_CAST")\n return (toArray<Any?>() as Array<T>).apply { sortWith(comparator) }.asList()\n }\n return toMutableList().apply { sortWith(comparator) }\n} \n \n /\*\* \n \* Returns an array of Boolean containing all of the elements of this collection. \n \* \n public fun Collection<Boolean>.toBooleanArray(): BooleanArray {\n val result = BooleanArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n} \n \n /\*\* \n \* Returns an array of Byte containing all of the elements of this collection. \n \* \n public fun Collection<Byte>.toByteArray(): ByteArray {\n val result = ByteArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n} \n \n /\*\* \n \* Returns an array of Char containing all of the elements of this collection. \n \* \n public fun Collection<Char>.toCharArray(): CharArray {\n val result = CharArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n} \n \n /\*\* \n \* Returns an array of Double containing all of the elements of this collection. \n \* \n public fun Collection<Double>.toDoubleArray(): DoubleArray {\n val result = DoubleArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n} \n \n /\*\* \n \* Returns an array of Float containing all of the elements of this collection. \n \* \n public fun Collection<Float>.toFloatArray(): FloatArray {\n val result = FloatArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n} \n \n /\*\* \n \* Returns an array of Int containing all of the elements of this collection. \n \* \n public fun Collection<Int>.toIntArray(): IntArray {\n val result = IntArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n} \n \n /\*\* \n \* Returns an array of Long containing all of the elements of this collection. \n \* \n public fun Collection<Long>.toLongArray(): LongArray {\n val result = LongArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n} \n \n /\*\* \n \* Returns an array of Short containing all of the elements of this collection. \n \* \n public fun Collection<Short>.toShortArray(): ShortArray {\n val result = ShortArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n} \n \n /\*\* \n \* Returns a [Map] containing key-value pairs provided by [transform] function \n \* applied to elements of the given collection. \n \* \n \* If any of two pairs would have the same key the last one gets added to the map. \n \* \n \* The returned map preserves the entry iteration order of the original collection. \n \* \n \* @sample samples.collections.Collections.Transformations.associate \n \* \n public inline fun <T, K, V> Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n} \n \n /\*\* \n \* Returns a [Map] containing the elements from the given collection indexed by the key \n \* returned from [keySelector] function applied to each element. \n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n \* \n \* The returned map preserves the entry iteration order of the original collection. \n \* \n \* @sample samples.collections.Collections.Transformations.associateBy \n \* \n public inline fun <T, K>



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Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n    val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K,
T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and
indexed by [keySelector]
functions applied to elements of the given collection.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V>
Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n    val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with
key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given
collection\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.\n *
\n * @sample samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M :
MutableMap<in K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n    for (element
in this) {\n        destination.put(keySelector(element), element)\n    }\n    return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector]
function and\n * and value is provided by the [valueTransform] function applied to elements of the given
collection.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added
to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateByToWithValueTransform\n */\npublic inline fun <T, K,
V, M : MutableMap<in K, in V>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n    for (element in this) {\n        destination.put(keySelector(element),
valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each element of the given collection.\n *
\n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateTo\n */\npublic inline fun <T, K, V, M : MutableMap<in
K, in V>> Iterable<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n    for (element in this) {\n
        destination += transform(element)\n    }\n    return destination\n}\n\n/**\n * Returns a [Map] where keys are
elements from the given collection and values are\n * produced by the [valueSelector] function applied to each
element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin("1.3")\npublic inline fun <K,
V> Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n    val result = LinkedHashMap<K,
V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given collection,\n * where key is the element itself and value is provided by the [valueSelector]
function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the
map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin("1.3")\npublic inline fun <K, V, M : MutableMap<in K, in V>>
Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n    for (element in this) {\n
        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C :
MutableCollection<in T>> Iterable<T>.toCollection(destination: C): C {\n    for (item in this) {\n
        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun <T> Iterable<T>.toHashSet(): HashSet<T> {\n    return
toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))\n}\n\n/**\n * Returns a [List] containing all

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elements.\n */\npublic fun <T> Iterable<T>.toList(): List<T> {\n    if (this is Collection) {\n        return when (size)
{\n            0 -> emptyList()\n            1 -> listOf(if (this is List) get(0) else iterator().next())\n            else ->
this.toMutableList()\n        }\n    }\n    return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a
new [MutableList] filled with all elements of this collection.\n */\npublic fun <T> Iterable<T>.toMutableList():
MutableList<T>
{\n    if (this is Collection<T>)\n        return this.toMutableList()\n    return
toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this collection.\n
*/\npublic fun <T> Collection<T>.toMutableList(): MutableList<T> {\n    return ArrayList(this)\n}\n\n/**\n *
Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original
collection.\n */\npublic fun <T> Iterable<T>.toSet(): Set<T> {\n    if (this is Collection) {\n        return when (size)
{\n            0 -> emptySet()\n            1 -> setOf(if (this is List) this[0] else iterator().next())\n            else ->
toCollection(LinkedHashSet<T>(mapCapacity(size)))\n        }\n    }\n    return
toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single list of all elements
yielded from results of [transform] function being invoked on each element of original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*/\npublic inline fun <T, R> Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n    return
flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of
[transform] function being invoked on each element of original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <T, R>
Iterable<T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original collection.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequence")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded
from results of [transform] function being invoked on each element\n * and its index in the original collection, to
the given [destination].\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =
transform(checkIndexOverflow(index++), element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element\n * and its index in the original collection, to the given [destination].\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npublic

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inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Sequence<R>): C {\n  var index = 0\n  for (element in this) {\n    val list =
transform(checkIndexOverflow(index++), element)\n    destination.addAll(list)\n  }\n  return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original collection, to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in
R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n  for (element in this) {\n    val
list = transform(element)\n    destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original collection, to the
given [destination].\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequenceTo")\npublic
inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) ->
Sequence<R>): C {\n  for (element in this) {\n    val list = transform(element)\n    destination.addAll(list)\n
}\n  return destination\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given
[keySelector] function\n * applied to each element and returns a map where each group key is associated with a list
of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from
the original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic
inline fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<T>>(),
keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original collection\n * by the key returned by the given [keySelector] function applied to the element\n * and returns
a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves
the entry iteration order of the keys produced from the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V>
Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements
of the original collection by the key returned by the given [keySelector] function\n * applied to each element and
puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n
*/\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M :
MutableMap<in K, MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n  for
(element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<T>()
}\n    list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups values returned by the [valueTransform]
function applied to each element of the original collection\n * by the key returned by the given [keySelector]
function applied to the element\n * and puts to the [destination] map each group key associated with a list of
corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n
  for (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) {
ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return destination\n}\n\n/**\n * Creates a
[Grouping] source from a collection to be used later with one of group-and-fold operations\n * using the specified
[keySelector] function to extract a key from each element.\n * \n * @sample
samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin("1.1")\npublic inline fun <T, K>
Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n  return object : Grouping<T, K>
{\n    override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n    override fun keyOf(element:
T): K = keySelector(element)\n  }\n}\n\n/**\n * Returns a list containing the results of applying the given
[transform] function\n * to each element in the original collection.\n * \n * @sample

```

```

samples.collections.Collections.Transformations.map\n
*/\npublic inline fun <T, R> Iterable<T>.map(transform: (T) -> R): List<R> {\n    return
mapTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing the results of
applying the given [transform] function\n * to each element and its index in the original collection.\n * @param
[transform] function that takes the index of an element and the element itself\n * and returns the result of the
transform applied to the element.\n */\npublic inline fun <T, R> Iterable<T>.mapIndexed(transform: (index: Int, T)
-> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n *
Returns a list containing only the non-null results of applying the given [transform] function\n * to each element and
its index in the original collection.\n * @param [transform] function that takes the index of an element and the
element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T,
R : Any> Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n    return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each
element and its index in the original collection\n * and appends only the non-null results to the given [destination].\n
* @param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>>
Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n    forEachIndexed {
index, element -> transform(index, element)?.let { destination.add(it) } }\n    return destination\n}\n\n/**\n *
Applies the given [transform] function to each element and its index in the original collection\n * and appends the
results to the given [destination].\n * @param [transform] function that takes the index of an element and the
element
itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R, C :
MutableCollection<in R>> Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n    var
index = 0\n    for (item in this)\n        destination.add(transform(checkIndexOverflow(index++), item))\n    return
destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform]
function\n * to each element in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.mapNotNull\n */\npublic inline fun <T, R : Any>
Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {\n    return mapNotNullTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Applies the given [transform] function to each element in the original collection\n * and
appends only the non-null results to the given [destination].\n */\npublic inline fun <T, R : Any, C :
MutableCollection<in R>> Iterable<T>.mapNotNullTo(destination:
C, transform: (T) -> R?): C {\n    forEach { element -> transform(element)?.let { destination.add(it) } }\n    return
destination\n}\n\n/**\n * Applies the given [transform] function\n * to each element of the original collection\n * and
appends the results to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>>
Iterable<T>.mapTo(destination: C, transform: (T) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each
element of the original collection\n * into an [IndexedValue] containing the index of that element and the element
itself.\n */\npublic fun <T> Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {\n    return IndexingIterable {
iterator() }\n}\n\n/**\n * Returns a list containing only distinct elements from the given collection.\n * \n * Among
equal elements of the given collection, only the first one will be present in the resulting list.\n
* \n * The elements in the resulting list are in the same order as they were in the source collection.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T> Iterable<T>.distinct():
List<T> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only elements from the
given collection\n * having distinct keys returned by the given [selector] function.\n * \n * Among elements of the
given collection with equal keys, only the first one will be present in the resulting list.\n * \n * The elements in the
resulting list are in the same order as they were in the source collection.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <T, K>
Iterable<T>.distinctBy(selector: (T) -> K): List<T> {\n    val set = HashSet<K>()\n    val list = ArrayList<T>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n}

```

```

return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this collection and the
specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n * \n *
To get a set containing all elements that are contained at least in one of these collections use [union].\n *\npublic
infix fun <T> Iterable<T>.intersect(other: Iterable<T>): Set<T> {\n    val set = this.toMutableSet()\n
set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this
collection and not contained by the specified collection.\n * \n * The returned set preserves the element iteration
order of the original collection.\n *\npublic infix fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {\n
val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\n\n/**\n * Returns a new [MutableSet]
containing all distinct elements from the given collection.\n * \n * The returned
set preserves the element iteration order of the original collection.\n *\npublic fun <T>
Iterable<T>.toMutableSet(): MutableSet<T> {\n    return when (this) {\n        is Collection<T> ->
LinkedHashSet(this)\n        else -> toCollection(LinkedHashSet<T>())\n    }\n}\n\n/**\n * Returns a set containing
all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the
original collection.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order
of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use
[intersect].\n *\npublic infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {\n    val set =
this.toMutableSet()\n    set.addAll(other)\n    return set\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * Note that if the collection contains no elements, the function returns `true`\n * because
there are no elements in it that _do not_ match the predicate.\n * See a more detailed explanation of this logic
concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous_truth) article.\n * \n * @sample
samples.collections.Collections.Aggregates.all\n *\npublic inline fun <T> Iterable<T>.all(predicate: (T) ->
Boolean): Boolean {\n    if (this is Collection && isEmpty()) return true\n    for (element in this) if
(!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if collection has at least one element.\n
*\n * @sample samples.collections.Collections.Aggregates.any\n *\npublic fun <T> Iterable<T>.any(): Boolean
{\n    if (this is Collection) return !isEmpty()\n    return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least
one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n *\npublic inline fun <T>
Iterable<T>.any(predicate: (T) -> Boolean): Boolean {\n    if (this
is Collection && isEmpty()) return false\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns the number of elements in this collection.\n *\npublic fun <T> Iterable<T>.count(): Int
{\n    if (this is Collection) return size\n    var count = 0\n    for (element in this) checkCountOverflow(++count)\n
return count\n}\n\n/**\n * Returns the number of elements in this collection.\n
*\n * @kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.count(): Int {\n    return size\n}\n\n/**\n *
Returns the number of elements matching the given [predicate].\n *\npublic inline fun <T>
Iterable<T>.count(predicate: (T) -> Boolean): Int {\n    if (this is Collection && isEmpty()) return 0\n    var count =
0\n    for (element in this) if (predicate(element)) checkCountOverflow(++count)\n    return count\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator
value
and each element.\n * \n * Returns the specified [initial] value if the collection is empty.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n *\npublic inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n    var
accumulator = initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original collection.\n * \n * Returns the
specified [initial] value if the collection is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*\npublic inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) ->

```

```

R): R { \n  var index = 0 \n  var accumulator = initial \n  for (element in this) accumulator =
operation(checkIndexOverflow(index++), accumulator, element) \n  return accumulator \n } \n \n /** \n * Accumulates
value starting with [initial] value and applying [operation] from right to left \n * to each element and current
accumulator value. \n * \n * Returns the specified [initial] value if the list is empty. \n * \n * @param [operation]
function that takes an element and current accumulator value, and calculates the next accumulator value. \n
*/ \n public inline fun <T, R> List<T>.foldRight(initial: R, operation: (T, acc: R) -> R): R { \n  var accumulator =
initial \n  if (!isEmpty()) { \n    val iterator = listIterator(size) \n    while (iterator.hasPrevious()) { \n
accumulator = operation(iterator.previous(), accumulator) \n    } \n  } \n  return accumulator \n } \n \n /** \n *
Accumulates value starting with [initial] value and applying [operation] from right to left \n *
to each element with its index in the original list and current accumulator value. \n * \n * Returns the specified
[initial] value if the list is empty. \n * \n * @param [operation] function that takes the index of an element, the
element itself \n * and current accumulator value, and calculates the next accumulator value. \n */ \n public inline fun
<T, R> List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R { \n  var accumulator =
initial \n  if (!isEmpty()) { \n    val iterator = listIterator(size) \n    while (iterator.hasPrevious()) { \n    val
index = iterator.previousIndex() \n    accumulator = operation(index, iterator.previous(), accumulator) \n    } \n
} \n  return accumulator \n } \n \n /** \n * Performs the given [action] on each element. \n
*/ \n @kotlin.internal.HidesMembers \n public inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit { \n  for
(element in this) action(element) \n } \n \n /** \n * Performs the given [action] on
each element, providing sequential index with the element. \n * @param [action] function that takes the index of an
element and the element itself \n * and performs the action on the element. \n */ \n public inline fun <T>
Iterable<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit { \n  var index = 0 \n  for (item in this)
action(checkIndexOverflow(index++), item) \n } \n \n /** \n * Returns the largest element. \n * \n * If any of elements is
`NaN` returns `NaN`. \n * \n * @throws NoSuchElementException if the collection is empty. \n
*/ \n @SinceKotlin("1.7") \n @kotlin.jvm.JvmName("maxOrNull") \n @Suppress("CONFLICTING_OVERLOADS") \n public fun
Iterable<Double>.max(): Double { \n  val iterator = iterator() \n  if (!iterator.hasNext()) throw
NoSuchElementException() \n  var max = iterator.next() \n  while (iterator.hasNext()) { \n    val e =
iterator.next() \n    max = maxOf(max, e) \n  } \n  return max \n } \n \n /** \n * Returns the largest element. \n * \n *
If any of elements is `NaN`
returns `NaN`. \n * \n * @throws NoSuchElementException if the collection is empty. \n
*/ \n @SinceKotlin("1.7") \n @kotlin.jvm.JvmName("maxOrNull") \n @Suppress("CONFLICTING_OVERLOADS") \n public fun
Iterable<Float>.max(): Float { \n  val iterator = iterator() \n  if (!iterator.hasNext()) throw
NoSuchElementException() \n  var max = iterator.next() \n  while (iterator.hasNext()) { \n    val e =
iterator.next() \n    max = maxOf(max, e) \n  } \n  return max \n } \n \n /** \n * Returns the largest element. \n * \n *
@throws NoSuchElementException if the collection is empty. \n
*/ \n @SinceKotlin("1.7") \n @kotlin.jvm.JvmName("maxOrNull") \n @Suppress("CONFLICTING_OVERLOADS") \n public fun
<T : Comparable<T>> Iterable<T>.max(): T { \n  val iterator = iterator() \n  if
(!iterator.hasNext()) throw NoSuchElementException() \n  var max = iterator.next() \n  while (iterator.hasNext())
{ \n    val e = iterator.next() \n    if (max < e) max = e \n  } \n  return max \n } \n \n /** \n *
Returns the first element yielding the largest value of the given function. \n * \n * @throws
NoSuchElementException if the collection is empty. \n * \n * @sample
samples.collections.Collections.Aggregates.maxBy \n
*/ \n @SinceKotlin("1.7") \n @kotlin.jvm.JvmName("maxByOrNull") \n @Suppress("CONFLICTING_OVERLOADS") \n public inline fun
<T, R : Comparable<R>> Iterable<T>.maxBy(selector: (T) -> R): T { \n  val iterator =
iterator() \n  if (!iterator.hasNext()) throw NoSuchElementException() \n  var maxElem = iterator.next() \n  if
(!iterator.hasNext()) return maxElem \n  var maxValue = selector(maxElem) \n  do { \n    val e = iterator.next() \n
val v = selector(e) \n    if (maxValue < v) { \n      maxElem = e \n      maxValue = v \n    } \n  } while
(iterator.hasNext()) \n  return maxElem \n } \n \n /** \n * Returns the first element yielding the largest value of the
given function or `null` if there are no elements. \n * \n * @sample

```

samples.collections.Collections.Aggregates.maxByOrNull

```
*\n@SinceKotlin("1.4")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxByOrNull(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxElem = iterator.next()\n    if (!iterator.hasNext()) return maxElem\n    var maxValue = selector(maxElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    } while (iterator.hasNext())\n    return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * @throws NoSuchElementException if the collection is empty.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun <T> Iterable<T>.maxOf(selector: (T) -> Double): Double {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * @throws NoSuchElementException if the collection is empty.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) ->
```

```
Float): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection.\n * @throws NoSuchElementException if the collection is empty.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
```

```
Iterable<T>.maxOf(selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T)
```

```
-> Double): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun <T> Iterable<T>.maxOfOrNull(selector: (T) -> Float): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
```

```

Iterable<T>.maxOrNull(selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (max < v) max = v
    }
    return max
}
// Returns the largest value according to the provided [selector] function applied to each element in the collection.
// @throws NoSuchElementException if the collection is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R>
Iterable<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var max = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(max, v) < 0) max = v
    }
    return max
}
// Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the collection or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R>
Iterable<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(max, v) < 0) max = v
    }
    return max
}
// Returns the largest element or `null` if there are no elements.
// If any of elements is `NaN` returns `NaN`.

@SinceKotlin("1.4")
public fun
Iterable<Double>.maxOrNull(): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        max = maxOf(max, e)
    }
    return max
}
// Returns the largest element or `null` if there are no elements.
// If any of elements is `NaN` returns `NaN`.

@SinceKotlin("1.4")
public fun
Iterable<Float>.maxOrNull(): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        max = maxOf(max, e)
    }
    return max
}
// Returns the largest element or `null` if there are no elements.

@SinceKotlin("1.4")
public fun <T : Comparable<T>>
Iterable<T>.maxOrNull(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}
// Returns the first element having the largest value according to the provided [comparator].
// @throws NoSuchElementException if the collection is empty.

@SinceKotlin("1.7")
@kotlin.jvm.JvmName("maxWithOrThrow")
@Suppress("CONFLICTING_OVERLOADS")
public fun <T>
Iterable<T>.maxWith(comparator: Comparator<in T>): T {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}
// Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.

@SinceKotlin("1.4")
public fun <T>
Iterable<T>.maxWithOrNull(comparator: Comparator<in T>): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}
// Returns the smallest element.
// If any of elements is `NaN` returns `NaN`.
// @throws NoSuchElementException if the collection is empty.

@SinceKotlin("1.7")
@kotlin.jvm.JvmName("minOrThrow")
@Suppress("CONFLICTING_OVERLOADS")
public fun
Iterable<Double>.min(): Double {
    val iterator = iterator()
    if (!iterator.hasNext()) throw

```



```

NoSuchElementException()\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        min = minOf(min, e)\n    }\n    return min\n}\n\n/**\n * Returns the smallest element.\n * \n * If
any of elements is `NaN` returns `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n
*\n * @SinceKotlin("1.7")\n */\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOA
DS")\npublic
fun Iterable<Float>.min(): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw
NoSuchElementException()\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        min = minOf(min, e)\n    }\n    return min\n}\n\n/**\n * Returns the smallest element.\n * \n *
@throws NoSuchElementException if the collection is empty.\n
*\n * @SinceKotlin("1.7")\n */\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOA
DS")\npublic fun <T : Comparable<T>> Iterable<T>.min(): T {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) throw NoSuchElementException()\n    var min = iterator.next()\n    while (iterator.hasNext())
{\n        val e = iterator.next()\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element
yielding the smallest value of the given function.\n * \n * @throws NoSuchElementException if the collection is
empty.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n
*\n * @SinceKotlin("1.7")\n */\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.minBy(selector: (T) -> R): T {\n    val iterator =
iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var minElem = iterator.next()\n    if
(!iterator.hasNext()) return minElem\n    var minValue = selector(minElem)\n    do {\n        val e = iterator.next()\n
        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    } while
(iterator.hasNext())\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the
given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n * @SinceKotlin("1.4")\n */\npublic inline fun <T, R :
Comparable<R>> Iterable<T>.minByOrNull(selector: (T) -> R): T? {\n    val iterator = iterator()\n
    if (!iterator.hasNext()) return null\n    var minElem = iterator.next()\n    if (!iterator.hasNext()) return minElem\n
    var minValue = selector(minElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (minValue
> v) {\n            minElem = e\n            minValue = v\n        }\n    } while (iterator.hasNext())\n    return
minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result
is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n
*\n * @SinceKotlin("1.4")\n */\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) ->
Double): Double {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n
    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n
        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the collection is empty.\n
*\n * @SinceKotlin("1.4")\n */\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) ->
Float): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var
minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n
        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the collection.\n * \n * @throws NoSuchElementException if the collection is empty.\n
*\n * @SinceKotlin("1.4")\n */\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.minOf(selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw

```

```

NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return\n    minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector]\n * function

```

is `NaN`, the returned result is `NaN`.\n

```

*@\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector: (T)\n-> Double): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minValue =\n    selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue =\n        minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If any\n * of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```

```

*@\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector:\n(T) -> Float): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minValue =\n    selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue =\n        minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n

```

```

*@\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>

```

```

Iterable<T>.minOfOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return\n    null\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v =\n        selector(iterator.next())\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among\n * all values produced by [selector] function applied to each element in the collection.\n * \n * @throws

```

NoSuchElementException if the collection is empty.\n

```

*@\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Iterable<T>.minOfWith(comparator:\nComparator<in R>, selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw\n    NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v =\n        selector(iterator.next())\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all\n * values produced by [selector] function applied

```

to each element in the collection or `null` if there are no elements.\n

```

*@\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>

```

```

Iterable<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    val iterator =\n    iterator()\n    if (!iterator.hasNext()) return null\n    var minValue = selector(iterator.next())\n    while\n    (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(minValue, v) > 0) {\n           \n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are\n * no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n

```

```

*\n@SinceKotlin("1.4")\npublic fun

```

```

Iterable<Double>.minOrNull(): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var\n    min = iterator.next()\n    while (iterator.hasNext())

```

```

{\n    val e = iterator.next()\n    min = minOf(min, e)\n}\n    return min\n}\n\n/**\n * Returns the smallest\n * element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n

```

```

*@\n@SinceKotlin("1.4")\npublic fun Iterable<Float>.minOrNull(): Float? {\n    val iterator = iterator()\n    if\n    (!iterator.hasNext()) return null\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e =

```

```

iterator.next()\n    min = minOf(min, e)\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if
there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun <T> Comparable<T>> Iterable<T>.minOrNull(): T?
{\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n *
Returns the first element having the smallest value according to the
provided [comparator].\n */\n * @throws NoSuchElementException if the collection is empty.\n
*/\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T {\n    val iterator = iterator()\n
if (!iterator.hasNext()) throw NoSuchElementException()\n    var min = iterator.next()\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return
min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or
`null` if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun <T>
Iterable<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        if (comparator.compare(min, e) > 0) min
= e\n    }\n    return min\n}\n\n/**\n * Returns `true` if the collection has no elements.\n */\n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Iterable<T>.none(): Boolean {\n    if (this is
Collection) return isEmpty()\n    return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the
given [predicate].\n */\n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic
inline fun <T> Iterable<T>.none(predicate: (T) -> Boolean): Boolean {\n    if (this is Collection && isEmpty())
return true\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Performs the
given [action] on each element and returns the collection itself afterwards.\n */\n@SinceKotlin("1.1")\npublic
inline fun <T, C : Iterable<T>> C.onEach(action: (T) -> Unit): C {\n    return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential
index with the element,\n */\n * and returns the collection itself afterwards.\n */\n * @param [action] function that takes the
index of an element and the element itself\n */\n * and performs the action on the element.\n
*/\n@SinceKotlin("1.4")\npublic inline fun <T, C : Iterable<T>> C.onEachIndexed(action: (index: Int, T) -> Unit):
C {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first element and
applying [operation] from left to right\n */\n * to current accumulator value and each element.\n */\n * Throws an
exception if this collection is empty. If the collection can be empty in an expected way,\n */\n * please use
[reduceOrNull] instead. It returns `null` when its receiver is empty.\n */\n * @param [operation] function that takes
current accumulator value and an element,\n */\n * and calculates the next accumulator value.\n */\n * @sample
samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Iterable<T>.reduce(operation:
(S, T) -> S): S {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) throw
UnsupportedOperationException("Empty collection can't be reduced.")\n    var accumulator: S = iterator.next()\n
while (iterator.hasNext()) {\n        accumulator = operation(accumulator, iterator.next())\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n */\n * to current accumulator value and each element with its index in the original collection.\n */\n * Throws an
exception if this collection is empty. If the collection can be empty in an expected way,\n */\n * please use
[reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n */\n * @param [operation] function
that takes the index of an element, current accumulator value and the element itself,\n */\n * and calculates the next
accumulator value.\n */\n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S,
T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n    val iterator = this.iterator()\n
if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")\n    var index =
1\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator =
operation(checkIndexOverflow(index++), accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n *
Accumulates value starting with the first element and applying [operation] from left to right\n */\n * to current

```

accumulator value and each element with its index in the original collection.

Returns `null` if the collection is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceOrNull
*\n@\n@SinceKotlin("1.4")\npublic inline fun <S, T : S>
Iterable<T>.reduceIndexedOrNull(operation:
(index: Int, acc: S, T) -> S): S? {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return null
    var index = 1
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator =
operation(checkIndexOverflow(index++), accumulator, iterator.next())
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.

Returns `null` if the collection is empty.

@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceOrNull
*\n@\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Iterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return null
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this list is empty. If the list can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRight
*\n@\npublic inline fun <S, T : S>
List<T>.reduceRight(operation: (T, acc: S) -> S): S {
    val iterator = listIterator(size)
    if (!iterator.hasPrevious())
        throw UnsupportedOperationException("Empty list can't be reduced.")
    var accumulator: S = iterator.previous()
    while (iterator.hasPrevious()) {
        accumulator =
operation(iterator.previous(), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original list and current accumulator value.

Throws an exception if this list is empty. If the list can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRight
*\n@\npublic inline fun <S, T : S>
List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {
    val iterator = listIterator(size)
    if (!iterator.hasPrevious())
        throw UnsupportedOperationException("Empty list can't be reduced.")
    var accumulator: S =
iterator.previous()
    while (iterator.hasPrevious()) {
        val index = iterator.previousIndex()
        accumulator = operation(index, iterator.previous(), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original list and current accumulator value.

Returns `null` if the list is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*\n@\n@SinceKotlin("1.4")\npublic inline fun <S, T : S>
List<T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {
    val iterator = listIterator(size)
    if (!iterator.hasPrevious())
        return null
    var accumulator: S = iterator.previous()
    while (iterator.hasPrevious()) {
        val index =
iterator.previousIndex()
        accumulator = operation(index, iterator.previous(), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Returns `null` if the list is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull

```

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n    val iterator = listIterator(size)\n    if
(!iterator.hasPrevious())\n        return null\n    var accumulator: S = iterator.previous()\n    while
(iterator.hasPrevious())
    {\n        accumulator = operation(iterator.previous(), accumulator)\n    }\n    return accumulator\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n *
to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\npublic inline fun <T, R> Iterable<T>.runningFold(initial: R, operation: (acc: R, T) ->
R): List<R> {\n    val estimatedSize = collectionSizeOrDefault(9)\n    if (estimatedSize == 0) return listOf(initial)\n
val result = ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n
    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n
result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original collection
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes the index of an element, current accumulator value\n * and the element itself, and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\npublic inline fun <T, R> Iterable<T>.runningFoldIndexed(initial: R, operation: (index:
Int, acc: R, T) -> R): List<R> {\n    val estimatedSize = collectionSizeOrDefault(9)\n
    if (estimatedSize == 0) return listOf(initial)\n    val result = ArrayList<R>(estimatedSize + 1).apply { add(initial)
}\n    var index = 0\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(index++,
accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing
successive accumulation values generated by applying [operation] from left to right\n * to each element and current
accumulator value that starts with the first element of this collection.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and the element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
inline fun <S, T : S> Iterable<T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n    val iterator =
this.iterator()\n    if (!iterator.hasNext()) return emptyList()\n    var accumulator: S = iterator.next()\n    val result =
ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\n    while (iterator.hasNext()) {\n
accumulator = operation(accumulator, iterator.next())\n        result.add(accumulator)\n    }\n    return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\n * to each element, its index in the original collection and current accumulator value that starts with the
first element of this collection.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n
* otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the
element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\npublic inline fun <S, T :
S> Iterable<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n    val iterator =
this.iterator()\n    if (!iterator.hasNext()) return emptyList()\n    var accumulator: S = iterator.next()\n    val result =
ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\n    var index = 1\n    while
(iterator.hasNext()) {\n        accumulator = operation(index++, accumulator, iterator.next())\n
result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that

```

starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Iterable<T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n    return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element, its index in the original collection and current accumulator value that starts
with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n    return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the collection.\n * \n * @Deprecated("Use sumOf instead.")\n * ReplaceWith("this.sumOf(selector)")\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * public inline fun <T>
Iterable<T>.sumBy(selector: (T) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the collection.\n * \n * @Deprecated("Use sumOf instead.")\n * ReplaceWith("this.sumOf(selector)")\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * public
inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {\n    var sum: Double = 0.0\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the collection.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Iterable<T>.sumOf(selector: (T) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the collection.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Iterable<T>.sumOf(selector: (T) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the collection.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Iterable<T>.sumOf(selector: (T) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n
sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the collection.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Iterable<T>.sumOf(selector: (T) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the collection.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
```

```

pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> ULong): ULong
{\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an
[IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T
: Any> Iterable<T?>.requireNoNulls(): Iterable<T> {\n    for (element in this) {\n        if (element == null) {\n
throw IllegalArgumentException("null element found in $this.")\n        }\n    }\n}\n
@Suppress("UNCHECKED_CAST")\n    return this as Iterable<T>\n}\n\n/**\n * Returns an original collection
containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n
*/\npublic fun <T : Any> List<T?>.requireNoNulls(): List<T> {\n    for (element in this) {\n        if (element ==
null) {\n            throw IllegalArgumentException("null element found in $this.")\n        }\n    }\n}\n
@Suppress("UNCHECKED_CAST")\n    return this as List<T>\n}\n\n/**\n * Splits this collection into a list of
lists each not exceeding the given [size].\n * \n * The last list in the resulting list may have fewer elements than the
given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be
greater than the number of elements in this collection.\n * \n * @sample
samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin("1.2")\npublic fun <T>
Iterable<T>.chunked(size: Int): List<List<T>> {\n    return windowed(size, size, partialWindows = true)\n}\n\n/**\n
* Splits this collection into several lists each not exceeding the given [size]\n * and applies the given [transform]
function to an each.\n * \n * @return list of results of the [transform] applied to an each list.\n * \n * Note that the
list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it
or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have fewer elements than
the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be
greater than the number of elements in this collection.\n * \n * @sample samples.text.Strings.chunkedTransform\n
*/\n@SinceKotlin("1.2")\npublic
fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R> {\n    return windowed(size, size,
partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a list containing all elements of the original
collection without the first occurrence of the given [element].\n */\npublic operator fun <T>
Iterable<T>.minus(element: T): List<T> {\n    val result = ArrayList<T>(collectionSizeOrDefault(10))\n    var
removed = false\n    return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true
}\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the
given [elements] array.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Array<out T>): List<T> {\n    if
(elements.isEmpty()) return this.toList()\n    return this.filterNot { it in elements }\n}\n\n/**\n * Returns a list
containing all elements of the original collection except the elements contained
in the given [elements] collection.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Iterable<T>):
List<T> {\n    val other = elements.convertToListIfNotCollection()\n    if (other.isEmpty())\n        return
this.toList()\n    return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original
collection except the elements contained in the given [elements] sequence.\n */\npublic operator fun <T>
Iterable<T>.minus(elements: Sequence<T>): List<T> {\n    val other = elements.toList()\n    if (other.isEmpty())\n
return this.toList()\n    return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the
original collection without the first occurrence of the given [element].\n */\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Iterable<T>.minusElement(element: T): List<T> {\n    return minus(element)\n}\n\n/**\n * Splits the
original collection into pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n * \n * @sample samples.collections.Iterables.Operations.partition\n */\npublic inline fun <T>
Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n    val first = ArrayList<T>()\n    val
second = ArrayList<T>()\n    for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n
        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Returns a list
containing all elements of the original collection and then the given [element].\n */\npublic operator fun <T>
Iterable<T>.plus(element: T): List<T> {\n    if (this is Collection) return this.plus(element)\n    val result =

```

```

ArrayList<T>()\n result.addAll(this)\n result.add(element)\n return result\n}\n\n/**\n * Returns a list
containing all elements of the original collection and then the given
[element].\n\n */\npublic operator fun <T> Collection<T>.plus(element: T): List<T> {\n    val result =
ArrayList<T>(size + 1)\n result.addAll(this)\n result.add(element)\n return result\n}\n\n/**\n * Returns a list
containing all elements of the original collection and then all elements of the given [elements] array.\n\n */\npublic
operator fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {\n    if (this is Collection) return
this.plus(elements)\n    val result = ArrayList<T>()\n result.addAll(this)\n result.addAll(elements)\n return
result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given
[elements] array.\n\n */\npublic operator fun <T> Collection<T>.plus(elements: Array<out T>): List<T> {\n    val
result = ArrayList<T>(this.size + elements.size)\n result.addAll(this)\n result.addAll(elements)\n return
result\n}\n\n/**\n * Returns a list containing all elements of the original collection and
then all elements of the given [elements] collection.\n\n */\npublic operator fun <T> Iterable<T>.plus(elements:
Iterable<T>): List<T> {\n    if (this is Collection) return this.plus(elements)\n    val result = ArrayList<T>()\n
result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all elements
of the original collection and then all elements of the given [elements] collection.\n\n */\npublic operator fun <T>
Collection<T>.plus(elements: Iterable<T>): List<T> {\n    if (elements is Collection) {\n        val result =
ArrayList<T>(this.size + elements.size)\n        result.addAll(this)\n        result.addAll(elements)\n        return result\n
    } else {\n        val result = ArrayList<T>(this)\n        result.addAll(elements)\n        return result\n    }\n}\n\n/**\n *
Returns a list containing all elements of the original collection and then all elements of the given [elements]
sequence.\n\n */\npublic operator fun <T> Iterable<T>.plus(elements:
Sequence<T>): List<T> {\n    val result = ArrayList<T>()\n result.addAll(this)\n result.addAll(elements)\n
return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of
the given [elements] sequence.\n\n */\npublic operator fun <T> Collection<T>.plus(elements: Sequence<T>): List<T>
{\n    val result = ArrayList<T>(this.size + 10)\n result.addAll(this)\n result.addAll(elements)\n return
result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n\n
*/\n\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.plusElement(element: T): List<T> {\n    return
plus(element)\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given
[element].\n\n */\n\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.plusElement(element: T):
List<T> {\n    return plus(element)\n}\n\n/**\n * Returns a list of snapshots
of the window of the given [size]\n\n * sliding along this collection with the given [step], where each\n\n * snapshot is
a list.\n\n * Several last lists may have fewer elements than the given [size].\n\n * Both [size] and [step] must
be positive and can be greater than the number of elements in this collection.\n\n * @param size the number of
elements to take in each window\n\n * @param step the number of elements to move the window forward by on an
each step, by default 1\n\n * @param partialWindows controls whether or not to keep partial windows in the end if
any,\n\n * by default `false` which means partial windows won't be preserved\n\n * \n\n * @sample
samples.collections.Sequences.Transformations.takeWindows\n\n */\n\n */\n@SinceKotlin("1.2")\npublic fun <T>
Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {\n
checkWindowSizeStep(size, step)\n    if (this is RandomAccess && this is List) {\n        val thisSize = this.size\n
val resultCapacity
= thisSize / step + if (thisSize % step == 0) 0 else 1\n        val result = ArrayList<List<T>>(resultCapacity)\n
var index = 0\n        while (index in 0 until thisSize) {\n            val windowSize = size.coerceAtMost(thisSize -
index)\n            if (windowSize < size && !partialWindows) break\n            result.add(List(windowSize) { this[it +
index] })\n            index += step\n        }\n        return result\n    }\n    val result = ArrayList<List<T>>()\n
windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {\n        result.add(it)\n    }\n
return result\n}\n\n/**\n * Returns a list of results of applying the given [transform] function to\n\n * an each list
representing a view over the window of the given [size]\n\n * sliding along this collection with the given [step].\n\n * \n\n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n\n * You
should not store it or allow

```







```

sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/**\n * Returns the sum of
all elements in the collection.\n */\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun Iterable<Long>.sum():
Long {\n  var sum: Long = 0L\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/**\n *
Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun
Iterable<Float>.sum(): Float {\n  var sum: Float = 0.0f\n  for (element in this) {\n    sum += element\n  }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*/\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun Iterable<Double>.sum(): Double {\n  var sum: Double
= 0.0\n
  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n"/\n * Copyright 2010-2023 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport
kotlin.comparisons.naturalOrder\nimport kotlin.random.Random\nimport kotlin.js.arrayBufferIsView\n\n/**\n *
Returns the array if it's not `null`, or an empty array otherwise.\n */\n @sample
samples.collections.Arrays.Usage.arrayOrEmpty\n\n@kotlin.internal.InlineOnly\npublic actual inline fun <T>
Array<out T>?.orEmpty(): Array<out T> = this ?: emptyArray<T>()\n\n/**\n * Returns a *typed* array containing
all of the elements of this collection.\n */\n\n * Allocates an array of runtime type `T` having its size equal to the size
of this collection\n * and populates the array with the elements of this collection.\n */\n @sample
samples.collections.Collections.Collections.collectionToTypedArray\n\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun <T> Collection<T>.toArray(): Array<T> =
copyToArray(this)\n\n@JsName("copyToArray")\n@PublishedApi\ninternal fun <T> copyToArray(collection:
Collection<T>): Array<T> {\n  return if (collection.asDynamic().toArray !== undefined)\n
collection.asDynamic().toArray().unsafeCast<Array<T>>()\n  else\n
copyToArrayImpl(collection).unsafeCast<Array<T>>()\n}\n\n@JsName("copyToArrayImpl")\ninternal actual fun
copyToArrayImpl(collection: Collection<*>): Array<Any?> {\n  val array = emptyArray<Any?>()\n  val iterator
= collection.iterator()\n  while (iterator.hasNext())\n    array.asDynamic().push(iterator.next())\n  return
array\n}\n\n@JsName("copyToExistingArrayImpl")\ninternal actual fun <T> copyToArrayImpl(collection:
Collection<*>, array: Array<T>): Array<T> {\n  if (array.size < collection.size)\n    return
copyToArrayImpl(collection).unsafeCast<Array<T>>()\n\n
  val iterator = collection.iterator()\n  var index = 0\n  while (iterator.hasNext()) {\n    array[index++] =
iterator.next().unsafeCast<T>()\n  }\n  if (index < array.size) {\n    array[index] = null.unsafeCast<T>()\n  }\n
return array\n}\n\n/**\n * Returns a new read-only list containing only the specified object [element].\n */\n\n *
@sample samples.collections.Collections.Lists.singletonReadOnlyList\n\npublic actual fun <T> listOf(element:
T): List<T> =
arrayListOf(element)\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal actual
inline fun <E> buildListInternal(builderAction: MutableList<E>.() -> Unit): List<E> {\n  return
ArrayList<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.Inlin
eOnly\ninternal actual inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>.() -> Unit):
List<E> {\n  checkBuilderCapacity(capacity)\n  return
ArrayList<E>(capacity).apply(builderAction).build()\n}\n\n/**\n
* Returns a new read-only set containing only the specified object [element].\n */\n\n * @sample
samples.collections.Collections.Sets.singletonReadOnlySet\n\npublic actual fun <T> setOf(element: T): Set<T>
= hashSetOf(element)\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal actual
inline fun <E> buildSetInternal(builderAction: MutableSet<E>.() -> Unit): Set<E> {\n  return
LinkedHashSet<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.
InlineOnly\ninternal actual inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>.() -> Unit):
Set<E> {\n  return
LinkedHashSet<E>(capacity).apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.
internal.InlineOnly\ninternal actual inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>.() ->

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Unit): Map<K, V> {\n  return LinkedHashMap<K,
V>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal
actual inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>().-> Unit): Map<K,
V> {\n  return LinkedHashMap<K, V>(capacity).apply(builderAction).build()\n}\n\n/**\n * Fills the list with the
provided [value].\n *\n * Each element in the list gets replaced with the [value].\n */\n@SinceKotlin("1.2")\npublic
actual fun <T> MutableList<T>.fill(value: T): Unit {\n  for (index in 0..lastIndex) {\n    this[index] = value\n  }\n}\n\n/**\n * Randomly shuffles elements in this list.\n *\n * See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\_shuffle#The\_modern\_algorithm\n */\n@SinceKotlin("1.2")\npublic actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)\n\n/**\n * Returns a new list with the elements of this list randomly shuffled.\n */\n@SinceKotlin("1.2")\npublic actual fun
<T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }\n\n/**\n * Sorts elements in the list in-place according to their natural sort order.\n *\n * The sort is _stable_. It means that
equal elements preserve their order relative to each other after sorting.\n *\n * @sample
samples.collections.Collections.Sorting.sortMutableList\n */\npublic actual fun <T : Comparable<T>>
MutableList<T>.sort(): Unit {\n  collectionsSort(this, naturalOrder())\n}\n\n/**\n * Sorts elements in the list in-
place according to the order specified with [comparator].\n *\n * The sort is _stable_. It means that equal elements
preserve their order relative to each other after sorting.\n *\n * @sample
samples.collections.Collections.Sorting.sortMutableListWith\n */\npublic actual fun <T>
MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {\n  collectionsSort(this,
comparator)\n}\n\nprivate fun <T> collectionsSort(list: MutableList<T>, comparator: Comparator<in T>) {\n  if
(list.size <= 1) return\n\n  val array = copyToArray(list)\n  sortArrayWith(array, comparator)\n\n  for (i in 0 until array.size) {\n    list[i] = array[i]\n  }\n}\n\ninternal actual fun <T> arrayOfNulls(reference:
Array<T>, size: Int): Array<T> {\n  return
arrayOfNulls<Any>(size).unsafeCast<Array<T>>()\n}\n\n@SinceKotlin("1.3")\n@PublishedApi\n@JsName("arrayCopy")\ninternal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int,
startIndex: Int, endIndex: Int) {\n  AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)\n  val
rangeSize = endIndex - startIndex\n  AbstractList.checkRangeIndexes(destinationOffset, destinationOffset +
rangeSize, destination.size)\n\n  if (arrayBufferIsView(destination) && arrayBufferIsView(source)) {\n    val
subrange = source.asDynamic().subarray(startIndex, endIndex)\n    destination.asDynamic().set(subrange,
destinationOffset)\n  } else {\n    if (source !== destination || destinationOffset <= startIndex) {\n      for
(index in 0 until rangeSize) {\n
        destination[destinationOffset + index] = source[startIndex + index]\n      }\n    } else {\n      for
(index in rangeSize - 1 downTo 0) {\n
        destination[destinationOffset + index] = source[startIndex +
index]\n      }\n    }\n  }\n}\n\n// no singleton map implementation in js, return map as
is\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline fun <K, V> Map<K,
V>.toSingletonMapOrSelf(): Map<K, V> = this\n\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline
fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> =
this.toMutableMap()\n\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline fun <T> Array<out
T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =\n  if (isVarargs)\n    // no need to copy vararg
array in JS\n    this\n  else\n    this.copyOf()\n\n@PublishedApi\ninternal actual fun
checkIndexOverflow(index: Int): Int {\n  if (index < 0) {\n    throwIndexOverflow()\n  }\n\n  return index\n}\n\n@PublishedApi\ninternal actual fun checkCountOverflow(count: Int): Int {\n  if (count < 0)
{\n    throwCountOverflow()\n  }\n  return count\n}\n\n/**\n * JS map and set implementations do not make
use of capacities or load factors.\n */\n@PublishedApi\ninternal actual fun mapCapacity(expectedSize: Int) =
expectedSize\n\n/**\n * Checks a collection builder function capacity argument.\n *\n * In JS no validation is made in
Map/Set constructor yet.\n */\n@SinceKotlin("1.3")\n@PublishedApi\ninternal fun
checkBuilderCapacity(capacity: Int) {\n  require(capacity >= 0) { "capacity must be non-negative." }\n}\n\n/**\n

```



``NaN``, returns ``NaN``.  
`*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double, c: Double): Double\n\n**\n * Returns the greater of three values according to the order specified by the given [comparator].\n * \n * If there are multiple equal maximal values, returns the first of them.\n *\n@SinceKotlin("1.1")\npublic fun <T> maxOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n return maxOf(a, maxOf(b, c, comparator), comparator)\n}\n\n**\n * Returns the greater of two values according to the order specified by the given [comparator].\n * \n * If values are equal, returns the first one.\n *\n@SinceKotlin("1.1")\npublic fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {\n return if (comparator.compare(a, b) >= 0) a else b\n}\n\n**\n * Returns the greater of the given values.\n * \n * If there are multiple equal maximal values, returns the first of them.\n *\n@SinceKotlin("1.4")\npublic expect fun <T : Comparable<T>> maxOf(a: T, vararg other: T): T\n\n**\n * Returns the greater of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Byte, vararg other: Byte): Byte\n\n**\n * Returns the greater of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Short, vararg other: Short): Short\n\n**\n * Returns the greater of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Int, vararg other: Int): Int\n\n**\n * Returns the greater of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Long, vararg other: Long): Long\n\n**\n * Returns the greater of the given values.\n * \n * If any value is `NaN`, returns `NaN`.  
*\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Float, vararg other: Float): Float\n\n**\n * Returns the greater of the given values.\n * \n * If any value is `NaN`, returns `NaN`.  
*\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Double, vararg other: Double): Double\n\n**\n * Returns the greater of the given values according to the order specified by the given [comparator].\n * \n * If there are multiple equal maximal values, returns the first of them.\n *\n@SinceKotlin("1.4")\npublic fun <T> maxOf(a: T, vararg other: T, comparator: Comparator<in T>): T {\n var max = a\n for (e in other) if (comparator.compare(max, e) < 0) max = e\n return max\n}\n\n**\n * Returns the smaller of two values.\n * \n * If values are equal, returns the first one.\n *\n@SinceKotlin("1.1")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T): T\n\n**\n * Returns the smaller of two values.  
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte): Byte\n\n**\n * Returns the smaller of two values.  
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short): Short\n\n**\n * Returns the smaller of two values.  
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int): Int\n\n**\n * Returns the smaller of two values.  
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Long, b: Long): Long\n\n**\n * Returns the smaller of two values.\n * \n * If either value is `NaN`, returns `NaN`.  
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float): Float\n\n**\n * Returns the smaller of two values.\n * \n * If either value is `NaN`, returns `NaN`.  
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double): Double\n\n**\n * Returns the smaller of three values.\n * \n * If there are multiple equal minimal values, returns the first of them.\n *\n@SinceKotlin("1.1")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T\n\n**\n * Returns the smaller of three values.  
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte, c: Byte): Byte\n\n**\n * Returns the smaller of three values.  
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short, c: Short): Short\n\n**\n * Returns the smaller of three values.  
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int, c: Int): Int\n\n**\n * Returns the smaller of three values.  
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Long, b: Long, c: Long): Long\n\n**\n * Returns the smaller of three values.\n * \n * If any value is `NaN`, returns `NaN`.  
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float, c: Float): Float\n\n**\n * Returns the smaller of three values.\n * \n * If any value is `NaN`, returns `NaN`.  
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double, c: Double, c:`

```

Double): Double\n\n/**\n * Returns the smaller of three values according to the order specified by the given
[comparator].\n * \n * If there are multiple equal minimal values, returns the first of them.\n
*\n@SinceKotlin("1.1")\npublic fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n    return
minOf(a, minOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the smaller of two values according to the
order specified by the given [comparator].\n * \n * If values are equal, returns the first one.\n
*\n@SinceKotlin("1.1")\npublic
fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {\n    return if (comparator.compare(a, b) <= 0) a else
b\n}\n\n/**\n * Returns the smaller of the given values.\n * \n * If there are multiple equal minimal values, returns
the first of them.\n *\n@SinceKotlin("1.4")\npublic expect fun <T : Comparable<T>> minOf(a: T, vararg other:
T): T\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a:
Byte, vararg other: Byte): Byte\n\n/**\n * Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Short, vararg other: Short): Short\n\n/**\n * Returns the
smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Int, vararg other: Int):
Int\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a:
Long, vararg other: Long): Long\n\n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`,
returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Float, vararg other: Float): Float\n\n/**\n
* Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Double, vararg other: Double): Double\n\n/**\n * Returns
the smaller of the given values according to the order specified by the given [comparator].\n * \n * If there are
multiple equal minimal values, returns the first of them.\n *\n@SinceKotlin("1.4")\npublic fun <T> minOf(a: T,
vararg other: T, comparator: Comparator<in T>): T {\n    var min = a\n    for (e in other) if
(comparator.compare(min, e) > 0) min = e\n    return min\n}\n\n", /*\n * Copyright 2010-2023 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns the first non-null value produced by
[transform] function being applied to entries of this map in iteration order,\n * or throws
[NoSuchElementException] if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Any> Map<out K,
V>.firstNotNullOf(transform: (Map.Entry<K, V>) -> R?): R {\n    return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the map was transformed to a non-null value.")\n}\n\n/**\n * Returns
the first non-null value produced by [transform] function being applied to entries of this map in iteration order,\n *
or
`null` if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Any> Map<out K,
V>.firstNotNullOfOrNull(transform: (Map.Entry<K, V>) -> R?): R? {\n    for (element in this) {\n        val result =
transform(element)\n        if (result != null) {\n            return result\n        }\n    }\n    return null\n}\n\n/**\n
* Returns a [List] containing all key-value pairs.\n *\npublic fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>>
{\n    if (size == 0)\n        return emptyList()\n    val iterator = entries.iterator()\n    if (!iterator.hasNext())\n        return emptyList()\n    val first = iterator.next()\n    if (!iterator.hasNext())\n        return listOf(first.toPair())\n    val
result = ArrayList<Pair<K, V>>(size)\n    result.add(first.toPair())\n    do {\n        result.add(iterator.next().toPair())\n    } while (iterator.hasNext())\n
return result\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each entry of original map.\n * \n * @sample samples.collections.Maps.Transformations.flatMap\n

```

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*\npublic inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R>
{\n  return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each entry of original map.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <K, V, R> Map<out K,
V>.flatMap(transform: (Map.Entry<K, V>) -> Sequence<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform]
function being invoked on each entry of original map, to the given [destination].\n *\npublic inline fun <K, V, R, C
: MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) ->
Iterable<R>): C {\n  for (element in this) {\n    val list = transform(element)\n    destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being
invoked on each entry of original map, to the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequenceTo")\npublic inline fun <K, V, R, C :
MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) ->
Sequence<R>): C {\n  for (element in this) {\n    val list = transform(element)\n    destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Returns a
list containing the results of applying the given [transform] function\n * to each entry in the original map.\n * \n *
@sample samples.collections.Maps.Transformations.mapToList\n *\npublic inline fun <K, V, R> Map<out K,
V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {\n  return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform]
function\n * to each entry in the original map.\n * \n * @sample
samples.collections.Maps.Transformations.mapNotNull\n *\npublic inline fun <K, V, R : Any> Map<out K,
V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {\n  return mapNotNullTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Applies the given [transform] function to each entry in the original map\n * and appends
only the non-null results to the given [destination].\n *\npublic inline fun <K, V, R : Any, C : MutableCollection<in
R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K,
V>) -> R?): C {\n  forEach { element -> transform(element)?.let { destination.add(it) } }\n  return
destination\n}\n\n/**\n * Applies the given [transform] function to each entry of the original map\n * and appends
the results to the given [destination].\n *\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K,
V>.mapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C {\n  for (item in this)\n  destination.add(transform(item))\n  return destination\n}\n\n/**\n * Returns `true` if all entries match the given
[predicate].\n * \n * Note that if the map contains no entries, the function returns `true`\n * because there are no
entries in it that _do not_ match the predicate.\n * See a more detailed explanation of this logic concept in
["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous_truth) article.\n * \n * @sample
samples.collections.Collections.Aggregates.all\n *\npublic inline fun <K, V> Map<out K, V>.all(predicate:
(Map.Entry<K, V>) -> Boolean):
Boolean {\n  if (isEmpty()) return true\n  for (element in this) if (!predicate(element)) return false\n  return
true\n}\n\n/**\n * Returns `true` if map has at least one entry.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *\npublic fun <K, V> Map<out K, V>.any(): Boolean {\n
return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one entry matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n *\npublic inline fun <K, V> Map<out K,
V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n  if (isEmpty()) return false\n  for (element in
this) if (predicate(element)) return true\n  return false\n}\n\n/**\n * Returns the number of entries in this map.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.count(): Int {\n  return size\n}\n\n/**\n
* Returns the number of entries matching the given [predicate].\n *\npublic inline fun <K, V> Map<out K,
V>.count(predicate:

```



```

(Map.Entry<K, V> -> Boolean): Int {
    if (isEmpty()) return 0
    var count = 0
    for (element in this) if
(predicate(element)) ++count
    return count
}

* Performs the given [action] on each entry.

@kotlin.internal.HidesMembers
public inline fun <K, V> Map<out K, V>.forEach(action: (Map.Entry<K, V>
-> Unit): Unit) {
    for (element in this) action(element)
}

* Returns the first entry yielding the largest
value of the given function.

@throws NoSuchElementException if the map is empty.

@sample
samples.collections.Collections.Aggregates.maxBy

@SinceKotlin("1.7")
@kotlin.jvm.JvmName("maxByOrThrow")
@kotlin.internal.InlineOnly
@Suppress("CONFLICTING_OVERLOADS")
public inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxBy(selector: (Map.Entry<K, V> -> R): Map.Entry<K, V> {
    return entries.maxBy(selector)
}

* Returns the first entry yielding the largest value of the given function or `null` if there
are no entries.

@sample
samples.collections.Collections.Aggregates.maxByOrNull

@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <K, V, R : Comparable<R>> Map<out
K, V>.maxByOrNull(selector: (Map.Entry<K, V> -> R): Map.Entry<K, V>? {
    return
entries.maxByOrNull(selector)
}

* Returns the largest value among all values produced by [selector]
function
* applied to each entry in the map.
* If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.
* @throws NoSuchElementException if the map is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.maxOf(selector:
(Map.Entry<K, V> -> Double): Double {
    return entries.maxOf(selector)
}

* Returns the largest value
among all values produced by [selector] function
* applied to each entry
in the map.
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
* @throws NoSuchElementException if the map is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.maxOf(selector:
(Map.Entry<K, V> -> Float): Float {
    return entries.maxOf(selector)
}

* Returns the largest value
among all values produced by [selector] function
* applied to each entry in the map.
* @throws
NoSuchElementException if the map is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxOf(selector: (Map.Entry<K, V> -> R): R {
    return entries.maxOf(selector)
}

* Returns the
largest value among all values
produced by [selector] function
* applied to each entry in the map or `null` if there are no entries.
* If any
of values produced by [selector] function is `NaN`, the returned result is `NaN`.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V> -> Double): Double? {
    return
entries.maxOfOrNull(selector)
}

* Returns the largest value among all values produced by [selector]
function
* applied to each entry in the map or `null` if there are no entries.
* If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K,
V> -> Float): Float? {
    return entries.maxOfOrNull(selector)
}

* Returns the largest value among all
values produced by [selector] function
* applied to each entry in the map or `null` if there are no entries.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V> -> R): R? {
    return entries.maxOfOrNull(selector)
}

* Returns the largest value according to the provided [comparator]
* among all values produced by [selector]

```

function applied to each entry in the map.\n \* \n \* @throws NoSuchElementException if the map is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K, V>.maxOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n    return entries.maxOfWith(comparator, selector)\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each entry in the map or `null` if there are no entries.\n
```

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K, V>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n return entries.maxOfWithOrNull(comparator, selector)\n}\n\n/\*\*\n \* Returns the first entry having the largest value according to the provided [comparator].\n \* \n \* @throws NoSuchElementException if the map is empty.\n

\*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@kotlin.internal.InlineOnly\n@Suppress("CONFLICTING\_OVERLOADS")\npublic inline fun <K, V> Map<out K, V>.maxWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V> {\n return entries.maxWith(comparator)\n}\n\n/\*\*\n \* Returns the first entry having the largest value according to the provided [comparator] or `null` if there are no entries.\n

\*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n return entries.maxWithOrNull(comparator)\n}\n\n/\*\*\n \* Returns the first entry yielding the smallest value of the given function.\n \* \n \* @throws NoSuchElementException if the map is empty.\n \* \n \* @sample samples.collections.Collections.Aggregates.minBy\n

\*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@kotlin.internal.InlineOnly\n@Suppress("CONFLICTING\_OVERLOADS")\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V> {\n return entries.minBy(selector)\n}\n\n/\*\*\n \* Returns the first entry yielding the smallest value of the given function or `null` if there are no entries.\n \* \n \* @sample samples.collections.Collections.Aggregates.minByOrNull\n

\*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n return entries.minByOrNull(selector)\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each entry in the map.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* @throws NoSuchElementException if the map is empty.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector: (Map.Entry<K, V>) -> Double): Double {\n return entries.minOf(selector)\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each entry in the map.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* @throws NoSuchElementException if the map is empty.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector: (Map.Entry<K, V>) -> Float): Float {\n return entries.minOf(selector)\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each entry in the map.\n \* \n \* @throws NoSuchElementException if the map is empty.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minOf(selector: (Map.Entry<K, V>) -> R): R {\n return entries.minOf(selector)\n}\n\n/\*\*\n

\* Returns the smallest value among all values produced by [selector] function  
\* applied to each entry in the map or `null` if there are no entries.  
\* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n    return
```

entries.minOfOrNull(selector)\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector]  
function\n \* applied to each entry in the map or `null` if there are no entries.  
\* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun <K, V> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n    return\n    entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]  
function\n * applied to each entry in the map or `null` if there are no entries.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
```

```
V>.minOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n    return entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]  
* among all values produced by [selector]  
function applied to each entry in the map.  
* @throws NoSuchElementException if the map is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun <K, V, R> Map<out K, V>.minOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n    return entries.minOfWith(comparator, selector)\n}\n\n/**\n * Returns the smallest value according to the  
provided [comparator]  
* among all values produced by [selector] function applied to each entry in the map or  
`null` if there are no entries.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
```

```
V>.minOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n    return\n    entries.minOfWithOrNull(comparator, selector)\n}\n\n/**\n * Returns the first entry having the smallest value  
according to the provided [comparator].  
* @throws NoSuchElementException if the map is empty.
```

```
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@kotlin.internal.InlineOnly\n@Suppress("CONFLICTING_OVERLOADS")\npublic
```

```
inline fun <K, V> Map<out K, V>.minWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V> {\n    return entries.minWith(comparator)\n}\n\n/**\n * Returns the first entry having the smallest value according  
to the provided [comparator] or `null` if there are no entries.
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
```

```
V>.minWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n    return\n    entries.minWithOrNull(comparator)\n}\n\n/**\n * Returns `true` if the map has no entries.  
* @sample samples.collections.Collections.Aggregates.none
```

```
*\n@kotlin.internal.InlineOnly\npublic fun <K, V> Map<out K, V>.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if no entries match the given [predicate].  
* @sample samples.collections.Collections.Aggregates.noneWithPredicate
```

```
*\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
```

```
V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty()) return\n    true\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Performs the given [action] on each entry and returns the map itself afterwards.
```

```
*\n@SinceKotlin("1.1")\npublic inline fun <K, V, M : Map<out K, V>> M.onEach(action: (Map.Entry<K, V>) -> Unit): M {\n    return apply { for (element in this)\n        action(element) }\n}\n\n/**\n * Performs the given [action] on each entry, providing sequential index with the  
entry,  
* and returns the map itself afterwards.  
* @param [action] function that takes the index of an entry and  
the entry itself  
* and performs the action on the entry.
```

```
*\n@SinceKotlin("1.4")\npublic inline fun <K, V, M :
```

```

Map<out K, V>> M.onEachIndexed(action: (index: Int, Map.Entry<K, V>) -> Unit): M {
    return apply {
        entries.forEachIndexed(action) }
}

/**
 * Creates an [Iterable] instance that wraps the original map returning
 * its entries when being iterated.
 */
@kotlin.internal.InlineOnly
public inline fun <K,
    V> Map<out K, V>.asIterable(): Iterable<Map.Entry<K, V>> {
    return entries
}

/**
 * Creates a
 * [Sequence] instance that wraps the original map returning its entries
 * when being iterated.
 */
@sample
samples.collections.Sequences.Building.sequenceFromMap
public fun <K, V> Map<out K, V>.asSequence():
    Sequence<Map.Entry<K, V>> {
    return entries.asSequence()
}

"/

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license that can be found in the license/LICENSE.txt file.
package kotlin.text

// NOTE: THIS FILE IS
AUTO-GENERATED by the GenerateUnicodeData.kt
// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
// 10 mappings totally
internal fun
Char.titlecaseImpl(): String {
    val uppercase = uppercase()
    if (uppercase.length > 1) {
        return if (this ==
            '\u0149') uppercase else uppercase[0] + uppercase.substring(1).lowercase()
    }
    return titlecaseChar().toString()
}

"/

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license/LICENSE.txt file.
package kotlin.text

/**
 * Converts this character to lower case using Unicode
 * mapping rules of the invariant locale.
 */
@Deprecated("Use lowercaseChar() instead.")
ReplaceWith("lowercaseChar()")
@DeprecatedSinceKotlin(warningSince =
    "1.5")
@kotlin.internal.InlineOnly
public actual inline fun Char.toLowerCase(): Char =
    lowercaseChar()

/**
 * Converts this character to lower case using Unicode mapping rules of the invariant
 * locale.
 * This function performs one-to-one character mapping.
 * To support one-to-many character
 * mapping use the [toLowerCase] function.
 * If this character has no mapping equivalent, the character itself is
 * returned.
 */
@sample
samples.text.Chars.toLowerCase

/**
 * @SinceKotlin("1.5")
 * @WasExperimental(ExperimentalStdlibApi::class)
 */
@kotlin.internal.InlineOnly
public
actual inline fun Char.toLowerCaseChar(): Char = lowercase()[0]

/**
 * Converts this character to lower case
 * using Unicode mapping rules of the invariant locale.
 * This function supports one-to-many character mapping,
 * thus the length of the returned string can be greater than one.
 * For example, `'\u0130'.toLowerCase()` returns
 * `'\u0069\u0307'`, where `'\u0130` is the LATIN CAPITAL LETTER I WITH DOT ABOVE character
 * (`\u0130`).
 * If this character has no lower case mapping, the result of `toString()` of this char is returned.
 */
@sample
samples.text.Chars.toLowerCase

/**
 * @SinceKotlin("1.5")
 * @WasExperimental(ExperimentalStdlibApi::class)
 */
@kotlin.internal.InlineOnly
public
actual inline fun Char.toLowerCase(): String = toString().toLowerCase().unsafeCast<String>()

/**
 * Converts this character to upper case using Unicode mapping
 * rules of the invariant locale.
 */
@Deprecated("Use uppercaseChar() instead.")
ReplaceWith("uppercaseChar()")
@DeprecatedSinceKotlin(warningSince =
    "1.5")
@kotlin.internal.InlineOnly
public actual inline fun Char.toUpperCase(): Char =
    uppercaseChar()

/**
 * Converts this character to upper case using Unicode mapping rules of the invariant
 * locale.
 * This function performs one-to-one character mapping.
 * To support one-to-many character
 * mapping use the [toUpperCase] function.
 * If this character has no mapping equivalent, the character itself is
 * returned.
 */
@sample
samples.text.Chars.toUpperCase

/**
 * @SinceKotlin("1.5")
 * @WasExperimental(ExperimentalStdlibApi::class)
 */
public actual fun
Char.uppercaseChar(): Char {
    val uppercase = uppercase()
    return if (uppercase.length > 1) this else
        uppercase[0]
}

/**
 * Converts this character to upper case using Unicode mapping rules of the invariant
 * locale.
 * This function supports one-to-many character
 * mapping, thus the length of the returned string can be greater than one.
 * For example, `'\uFB00'.uppercase()`
 * returns `'\u0046\u0046'`, where `'\uFB00` is the LATIN SMALL LIGATURE FF character (`\ufb00`).
 * If this character has no upper case mapping, the result of `toString()` of this char is returned.
 */
@sample
samples.text.Chars.uppercase

```

```

*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
c actual inline fun Char.toUpperCase(): String = toString().asDynamic().toUpperCase().unsafeCast<String>()\n\n**\n
* Converts this character to title case using Unicode mapping rules of the invariant locale.\n * This function
performs one-to-one character mapping.\n * To support one-to-many character mapping use the [titlecase]
function.\n * If this character has no mapping equivalent, the result of calling [uppercaseChar] is returned.\n * \n *
@sample samples.text.Chars.titlecase\n *\n@SinceKotlin("1.5")\npublic
actual fun Char.titlecaseChar(): Char = titlecaseCharImpl()\n\n**\n * Returns `true` if this character is a Unicode
high-surrogate code unit (also known as leading-surrogate code unit).\n *\npublic actual fun
Char.isHighSurrogate(): Boolean = this in
Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE\n\n**\n * Returns `true` if this character is a
Unicode low-surrogate code unit (also known as trailing-surrogate code unit).\n *\npublic actual fun
Char.isLowSurrogate(): Boolean = this in
Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\n\n**\n * Returns the Unicode general
category of this character.\n *\n@SinceKotlin("1.5")\npublic actual val Char.category: CharCategory\n get() =
CharCategory.valueOf(getCategoryValue())\n\n**\n * Returns `true` if this character (Unicode code point) is
defined in Unicode.\n * \n * A character is considered to be defined in Unicode if its [category] is not
[CharCategory.UNASSIGNED].\n *\n@SinceKotlin("1.5")\npublic actual fun Char.isDefined():
Boolean {\n if (this < "\u0080") {\n return true\n }\n return getCategoryValue() !=
CharCategory.UNASSIGNED.value\n}\n\n**\n * Returns `true` if this character is a letter.\n * \n * A character is
considered to be a letter if its [category] is [CharCategory.UPPERCASE_LETTER],\n *
[CharCategory.LOWERCASE_LETTER], [CharCategory.TITLECASE_LETTER],
[CharCategory.MODIFIER_LETTER], or [CharCategory.OTHER_LETTER].\n * \n * @sample
samples.text.Chars.isLetter\n *\n@SinceKotlin("1.5")\npublic actual fun Char.isLetter(): Boolean {\n if (this in
'a'..'z' || this in 'A'..'Z') {\n return true\n }\n if (this < "\u0080") {\n return false\n }\n return
isLetterImpl()\n}\n\n**\n * Returns `true` if this character is a letter or digit.\n * \n * @see isLetter\n * @see
isDigit\n * \n * @sample samples.text.Chars.isLetterOrDigit\n *\n@SinceKotlin("1.5")\npublic actual fun
Char.isLetterOrDigit(): Boolean {\n if (this in 'a'..'z' || this in 'A'..'Z'
|| this in '0'..'9') {\n return true\n }\n if (this < "\u0080") {\n return false\n }\n\n return isDigitImpl() ||
isLetterImpl()\n}\n\n**\n * Returns `true` if this character is a digit.\n * \n * A character is considered to be a digit if
its [category] is [CharCategory.DECIMAL_DIGIT_NUMBER].\n * \n * @sample samples.text.Chars.isDigit\n
*\n@SinceKotlin("1.5")\npublic actual fun Char.isDigit(): Boolean {\n if (this in '0'..'9') {\n return true\n
}\n if (this < "\u0080") {\n return false\n }\n return isDigitImpl()\n}\n\n**\n * Returns `true` if this
character is upper case.\n * \n * A character is considered to be an upper case character if its [category] is
[CharCategory.UPPERCASE_LETTER],\n * or it has contributory property `Other_Uppercase` as defined by the
Unicode Standard.\n * \n * @sample samples.text.Chars.isUpperCase\n *\n@SinceKotlin("1.5")\npublic actual fun
Char.isUpperCase(): Boolean {\n if (this in 'A'..'Z')
{\n return true\n }\n if (this < "\u0080") {\n return false\n }\n return isUpperCaseImpl()\n}\n\n**\n
* Returns `true` if this character is lower case.\n * \n * A character is considered to be a lower case character if its
[category] is [CharCategory.LOWERCASE_LETTER],\n * or it has contributory property `Other_Lowercase` as
defined by the Unicode Standard.\n * \n * @sample samples.text.Chars.isLowerCase\n
*\n@SinceKotlin("1.5")\npublic actual fun Char.isLowerCase(): Boolean {\n if (this in 'a'..'z') {\n return
true\n }\n if (this < "\u0080") {\n return false\n }\n return isLowerCaseImpl()\n}\n\n**\n * Returns
`true` if this character is a title case letter.\n * \n * A character is considered to be a title case letter if its [category] is
[CharCategory.TITLECASE_LETTER].\n * \n * @sample samples.text.Chars.isTitleCase\n
*\n@SinceKotlin("1.5")\npublic actual fun Char.isTitleCase(): Boolean {\n if (this < "\u0080") {\n
return false\n }\n return getCategoryValue() == CharCategory.TITLECASE_LETTER.value\n}\n\n**\n * Returns
`true` if this character is an ISO control character.\n * \n * A character is considered to be an ISO control
character if its [category] is [CharCategory.CONTROL],\n * meaning the Char is in the range `'\u0000'..''\u001F'`

```

```

or in the range `'\u007F'..\u009F'`.n *n * @sample samples.text.Chars.isISOControl\n
*\n@SinceKotlin("1.5")\npublic actual fun Char.isISOControl(): Boolean {\n    return this <= '\u001F' || this in\n
'\u007F'..\u009F'\n}\n\n/**\n * Determines whether a character is whitespace according to the Unicode standard.\n
* Returns `true` if the character is whitespace.\n *n * @sample samples.text.Chars.isWhitespace\n */\npublic actual\n
fun Char.isWhitespace(): Boolean = isWhitespaceImpl(), /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin\n
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can\n
be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n/**\n * Converts the characters in the specified array to a string.\n */\n@SinceKotlin("1.2")\n@Deprecated("Use\n
CharArray.concatToString() instead",\n
ReplaceWith("chars.concatToString()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =\n
"1.5")\npublic actual fun String(chars: CharArray): String {\n    var result = ""\n    for (char in chars) {\n\n
result += char\n    }\n    return result\n}\n\n/**\n * Converts the characters from a portion of the specified array to a\n
string.\n *n * @throws IndexOutOfBoundsException if either [offset] or [length] are less than zero\n * or `offset +\n
length` is out of [chars] array bounds.\n */\n@SinceKotlin("1.2")\n@Deprecated("Use\n
CharArray.concatToString(startIndex, endIndex) instead", ReplaceWith("chars.concatToString(offset, offset +\n
length)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5")\npublic\n
actual fun String(chars: CharArray, offset: Int, length: Int): String {\n    if (offset < 0 || length < 0 || chars.size -\n
offset < length)\n        throw IndexOutOfBoundsException("size: ${chars.size}; offset: $offset; length: $length")\n\n
var result = ""\n    for (index in offset until offset + length) {\n        result += chars[index]\n    }\n    return\n
result\n}\n\n/**\n * Concatenates characters in this [CharArray] into a String.\n\n
*\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun\n
CharArray.concatToString(): String {\n    var result = ""\n    for (char in this) {\n        result += char\n    }\n\n
return result\n}\n\n/**\n * Concatenates characters in this [CharArray] or its subrange into a String.\n *n * @param\n
startIndex the beginning (inclusive) of the subrange of characters, 0 by default.\n * @param endIndex the end\n
(exclusive) of the subrange of characters, size of this array by default.\n *n * @throws\n
IndexOutOfBoundsException\n
if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws\n
IllegalArgumentException if [startIndex] is greater than [endIndex].\n\n
*\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTI\n
ON_WITH_DEFAULT_ARGUMENTS")\npublic actual fun CharArray.concatToString(startIndex: Int = 0,\n
endIndex: Int = this.size): String {\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n    var\n
result = ""\n    for (index in startIndex until endIndex) {\n        result += this[index]\n    }\n    return\n
result\n}\n\n/**\n * Returns a [CharArray] containing characters of this string.\n\n
*\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun\n
String.toCharArray(): CharArray {\n    return CharArray(length) { get(it) }\n}\n\n/**\n * Returns a [CharArray]\n
containing characters of this string or its substring.\n *n * @param startIndex the beginning (inclusive) of\n
the substring, 0 by default.\n * @param endIndex the end (exclusive) of the substring, length of this string by\n
default.\n *n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than\n
the length of this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n\n
*\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTI\n
ON_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int =\n
this.length): CharArray {\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n    return\n
CharArray(endIndex - startIndex) { get(startIndex + it) }\n}\n\n/**\n * Decodes a string from the bytes in UTF-8\n
encoding in this array.\n *n * Malformed byte sequences are replaced by the replacement char `'\uFFFD'`.\n\n
*\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun\n
ByteArray.decodeToString(): String {\n\n    return decodeUtf8(this, 0, size, false)\n}\n\n/**\n * Decodes a string from the bytes in UTF-8 encoding in this\n
array or its subrange.\n *n * @param startIndex the beginning (inclusive) of the subrange to decode, 0 by default.\n

```

\* @param endIndex the end (exclusive) of the subrange to decode, size of this array by default.\n \* @param throwOnInvalidSequence specifies whether to throw an exception on malformed byte sequence or replace it by the replacement char `\\uFFFD`.\n \* @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n \* @throws CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.\n

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("\n@Actual_Function\n@With_Default_Arguments")\npublic actual fun ByteArray.decodeToString(\n
    startIndex: Int = 0,\n    endIndex: Int = this.size,\n    throwOnInvalidSequence: Boolean = false\n): String {\n
    AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n    return decodeUtf8(this, startIndex, endIndex,\n        throwOnInvalidSequence)\n}\n\n/**\n * Encodes this string to an array of bytes in UTF-8 encoding.\n * Any\n * malformed char sequence is replaced by the replacement byte sequence.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun\nString.encodeToByteArray(): ByteArray {\n    return encodeUtf8(this, 0, length, false)\n}\n\n/**\n * Encodes this\n * string or its substring to an array of bytes in UTF-8 encoding.\n * @param startIndex the beginning (inclusive)\n * of the substring to encode, 0 by default.\n * @param endIndex the end (exclusive) of the substring to encode, length\n * of this string by default.\n * @param throwOnInvalidSequence specifies whether to throw an exception on\n * malformed char sequence or replace.\n *
*\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of\n * this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n * @throws\n * CharacterCodingException if this string contains malformed char sequence and [throwOnInvalidSequence] is true.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("\n@Actual_Function\n@With_Default_Arguments")\npublic actual fun String.encodeToByteArray(\n    startIndex: Int = 0,\n    endIndex: Int = this.length,\n    throwOnInvalidSequence: Boolean = false\n): ByteArray {\n
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n    return encodeUtf8(this, startIndex, endIndex,\n        throwOnInvalidSequence)\n}\n\n/**\n * Returns a copy of this string converted to upper case using the rules of the\n * default locale.\n * @Deprecated("Use uppercase() instead.")\n * ReplaceWith("uppercase()")\n * @DeprecatedSinceKotlin(warningSince =\n * "1.5")\n * @kotlin.internal.InlineOnly\n * public\n * actual inline fun String.toUpperCase(): String = asDynamic().toUpperCase()\n *
*\n * Returns a copy of this\n * string converted to upper case using Unicode mapping rules of the invariant locale.\n * This function supports\n * one-to-many and many-to-one character mapping,\n * thus the length of the returned string can be different from the\n * length of the original string.\n * @sample samples.text.Strings.uppercase\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\n * actual inline fun String.uppercase(): String = asDynamic().toUpperCase()\n *
*\n * Returns a copy of this string\n * converted to lower case using the rules of the default locale.\n * @Deprecated("Use lowercase() instead.")\n * ReplaceWith("lowercase()")\n * @DeprecatedSinceKotlin(warningSince =\n * "1.5")\n * @kotlin.internal.InlineOnly\n * public actual inline fun String.toLowerCase(): String =\n * asDynamic().toLowerCase()\n *
*\n * Returns a copy of this string converted to lower case using Unicode mapping rules of the invariant locale.\n * This function supports\n * one-to-many and many-to-one character mapping,\n * thus the length of the returned string\n * can be different from the length of the original string.\n * @sample samples.text.Strings.lowercase\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\n * actual inline fun String.lowercase(): String = asDynamic().toLowerCase()\n *
*\n * @kotlin.internal.InlineOnly\n * internal\n * actual inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str,\n * fromIndex)\n *
*\n * @kotlin.internal.InlineOnly\n * internal\n * actual inline fun String.nativeLastIndexOf(str: String,\n * fromIndex: Int): Int = asDynamic().lastIndexOf(str,\n * fromIndex)\n *
*\n * @kotlin.internal.InlineOnly\n * @kotlin.js.JsPolyfill("\n * @nif (typeof String.prototype.startsWith ===

```





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*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\nCharsKt")\n\npackage kotlin.text\n\n/**\n * Returns the numeric value of the decimal digit that this Char represents.\n * Throws an exception if this Char is not a valid decimal digit.\n * A Char is considered to represent a decimal digit if [isDigit] is true for the Char.\n * In this case, the Unicode decimal digit value of the character is returned.\n *\n * @sample samples.text.Chars.digitToInt\n */\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToInt(): Int {\n    return digitOf(this, 10).also {\n        if (it < 0) throw IllegalArgumentException("\nChar $this is not a decimal digit")\n    }\n}\n\n/**\n * Returns the numeric value of the digit that this Char represents in the specified [radix].\n * Throws an exception if the [radix] is not in the range `2..36` or if this Char is not a valid digit in the specified [radix].\n * A Char is considered to represent a digit in the specified [radix] if at least one of the following is true:\n * - [isDigit] is `true` for the Char and the Unicode decimal digit value of the character is less than the specified [radix]. In this case the decimal digit value is returned.\n * - The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix + 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is returned.\n * - The Char is one of the lowercase Latin letters 'a' through 'z' and its [code] is less than `radix + 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned.\n * - The Char is one of the fullwidth Latin capital letters '\uFF21' through '\uFF3A' and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code - 0xFF21 + 10` is returned.\n * - The Char is one of the fullwidth Latin small letters '\uFF41' through '\uFF5A' and its [code] is less than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned.\n *\n * @sample samples.text.Chars.digitToInt\n */\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToInt(radix: Int): Int? {\n    return digitToIntOrNull(radix) ?: throw IllegalArgumentException("\nChar $this is not a digit in the given radix=$radix")\n}\n\n/**\n * Returns the numeric value of the decimal digit that this Char represents, or `null` if this Char is not a valid decimal digit.\n * A Char is considered to represent a decimal digit if [isDigit] is true for the Char.\n * In this case, the Unicode decimal digit value of the character is returned.\n *\n * @sample samples.text.Chars.digitToIntOrNull\n */\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToIntOrNull(): Int? {\n    return digitOf(this, 10).takeIf { it >= 0 }\n}\n\n/**\n * Returns the numeric value of the digit that this Char represents in the specified [radix], or `null` if this Char is not a valid digit in the specified [radix].\n * Throws an exception if the [radix] is not in the range `2..36`.\n * A Char is considered to represent a digit in the specified [radix] if at least one of the following is true:\n * - [isDigit] is `true` for the Char and the Unicode decimal digit value of the character is less than the specified [radix]. In this case the decimal digit value is returned.\n * - The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix + 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is returned.\n * - The Char is one of the lowercase Latin letters 'a' through 'z' and its [code] is less than `radix + 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned.\n * - The Char is one of the fullwidth Latin capital letters '\uFF21' through '\uFF3A' and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code - 0xFF21 + 10` is returned.\n * - The Char is one of the fullwidth Latin small letters '\uFF41' through '\uFF5A' and its [code] is less than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned.\n *\n * @sample samples.text.Chars.digitToIntOrNull\n */\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToIntOrNull(radix: Int): Int? {\n    checkRadix(radix)\n    return digitOf(this, radix).takeIf { it >= 0 }\n}\n\n/**\n * Returns the Char that represents this decimal digit.\n * Throws an exception if this value is not in the range `0..9`.\n * If this value is in `0..9`, the decimal digit Char with code `0'.code + this` is returned.\n *\n * @sample samples.text.Chars.digitToChar\n */\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Int.digitToChar(): Char {\n    if (this in 0..9) {\n        return '0' + this\n    }\n    throw IllegalArgumentException("\nInt $this is not a decimal digit")\n}\n\n/**\n * Returns the Char that represents this numeric digit value in the specified [radix].\n * Throws

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preferable (Char(intValue.toUShort())).\n * That overload doesn't check validity of the argument, and may
improve program performance when the function is called routinely inside a loop.\n * \n * @sample
samples.text.Chars.charFromCode\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun Char(code: Int): Char { \n    if (code < Char.MIN_VALUE.code || code > Char.MAX_VALUE.code) {\n
        throw IllegalArgumentException("Invalid Char code: $code")\n    } \n    return code.toChar()\n}\n\n/>\n *
Creates a Char with the specified [code].\n * \n * @sample samples.text.Chars.charFromCode\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("NO_ACTUAL_FOR
_EXPECT")\npublic
expect fun Char(code: UShort): Char\n\n/>\n * Returns the code of this Char.\n * \n * Code of a Char is the value it
was constructed with, and the UTF-16 code unit corresponding to this Char.\n * \n * @sample
samples.text.Chars.code\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Su
ppress("DEPRECATION")\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline val Char.code: Int get() =
this.toInt()\n","/\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@\nfile:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n\npackage
kotlin.sequences\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport
kotlin.random.*\n\n/>\n * Returns `true` if [element] is found in the sequence.\n * \n * The operation is
_terminal_.\n *\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.contains(element: T):
Boolean {\n    return indexOf(element) >= 0\n}\n\n/>\n * Returns an element at the given [index] or throws an
[IndexOutOfBoundsException] if the [index] is out of bounds of this sequence.\n * \n * The operation is
_terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n *\npublic fun <T>
Sequence<T>.elementAt(index: Int): T {\n    return elementAtOrElse(index) { throw
IndexOutOfBoundsException("Sequence doesn't contain element at index $index.") }\n}\n\n/>\n * Returns an
element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this
sequence.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\npublic fun <T> Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n    if (index < 0)\n    return defaultValue(index)\n    val iterator = iterator()\n    var count = 0\n    while (iterator.hasNext()) {\n        val
element = iterator.next()\n        if (index == count++)\n            return element\n    }\n    return
defaultValue(index)\n}\n\n/>\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this sequence.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\npublic fun <T>
Sequence<T>.elementAtOrNull(index: Int): T? {\n    if (index < 0)\n        return null\n    val iterator = iterator()\n
var count = 0\n    while (iterator.hasNext()) {\n        val element = iterator.next()\n        if (index == count++)\n            return element\n    }\n    return null\n}\n\n/>\n * Returns the first element matching the given [predicate], or `null`
if
no such element was found.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Elements.find\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Sequence<T>.find(predicate: (T) -> Boolean): T? {\n    return firstOrNull(predicate)\n}\n\n/>\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * The operation is
_terminal_.\n * \n * @sample samples.collections.Collections.Elements.find\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.findLast(predicate: (T) -> Boolean): T? {\n
return lastOrNull(predicate)\n}\n\n/>\n * Returns the first element.\n * \n * The operation is _terminal_.\n * \n *
@throws NoSuchElementException if the sequence is empty.\n *\npublic fun <T> Sequence<T>.first(): T {\n    val
iterator = iterator()\n    if (!iterator.hasNext())\n        throw NoSuchElementException("Sequence is empty.")\n}

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return iterator.next()\n}\n\n/**\n * Returns the first element
 * matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *\n * The
 * operation is _terminal_.\n *\npublic inline fun <T> Sequence<T>.first(predicate: (T) -> Boolean): T {\n    for
 * (element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Sequence contains no
 * element matching the predicate.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function
 * being applied to elements of this sequence in iteration order,\n * or throws [NoSuchElementException] if no non-
 * null value was produced.\n *\n * The operation is _terminal_.\n *\n * @sample
 * samples.collections.Collections.Transformations.firstNotNullOf\n
 *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>
 * Sequence<T>.firstNotNullOf(transform: (T) -> R?): R {\n    return firstNotNullOfOrNull(transform) ?: throw
 * NoSuchElementException("No element of the sequence was transformed to a non-null value.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this sequence in
 * iteration order,\n * or `null` if no non-null value was produced.\n *\n * The operation is _terminal_.\n *\n *
 * @sample samples.collections.Collections.Transformations.firstNotNullOf\n
 *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>
 * Sequence<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n    for (element in this) {\n        val result =
 * transform(element)\n        if (result != null) {\n            return result\n        }\n    }\n    return null\n}\n\n/**\n * Returns the first element, or `null` if the sequence is empty.\n *\n * The operation is _terminal_.\n *\npublic fun
 * <T> Sequence<T>.firstOrNull(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext())\n        return null\n
 * return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was
 * not found.\n
 *\n * The operation is _terminal_.\n *\npublic inline fun <T> Sequence<T>.firstOrNull(predicate: (T) -> Boolean):
 * T? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns first index
 * of [element], or -1 if the sequence does not contain element.\n *\n * The operation is _terminal_.\n *\npublic fun
 * <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOf(element: T): Int {\n    var index = 0\n    for (item in
 * this) {\n        checkIndexOverflow(index)\n        if (element == item)\n            return index\n        index++\n    }\n
 * return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the sequence does
 * not contain such element.\n *\n * The operation is _terminal_.\n *\npublic inline fun <T>
 * Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    var index = 0\n    for (item in this) {\n
 * checkIndexOverflow(index)\n        if (predicate(item))\n            return index\n        index++\n    }\n    return
 * -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -
 * 1 if the sequence does not contain such element.\n *\n * The operation is _terminal_.\n *\npublic inline fun <T>
 * Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    var lastIndex = -1\n    var index = 0\n    for (item in
 * this) {\n        checkIndexOverflow(index)\n        if (predicate(item))\n            lastIndex = index\n        index++\n
 * }\n    return lastIndex\n}\n\n/**\n * Returns the last element.\n *\n * The operation is _terminal_.\n *\n * @throws
 * NoSuchElementException if the sequence is empty.\n *\n * @sample
 * samples.collections.Collections.Elements.last\n *\npublic fun <T> Sequence<T>.last(): T {\n    val iterator =
 * iterator()\n    if (!iterator.hasNext())\n        throw NoSuchElementException("Sequence is empty.")\n    var last =
 * iterator.next()\n    while (iterator.hasNext())\n        last = iterator.next()\n    return last\n}\n\n/**\n * Returns the last element matching the given [predicate].\n *\n * The operation is _terminal_.\n *\n * @throws
 * NoSuchElementException if no such element is found.\n *\n * @sample
 * samples.collections.Collections.Elements.last\n *\npublic inline fun <T> Sequence<T>.last(predicate: (T) ->
 * Boolean): T {\n    var last: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element))
 * {\n            last = element\n            found = true\n        }\n    }\n    if (!found) throw
 * NoSuchElementException("Sequence contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return last as T\n}\n\n/**\n * Returns last index of [element], or -1 if the
 * sequence does not contain element.\n *\n * The operation is _terminal_.\n *\npublic fun
 * <@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element: T): Int {\n    var lastIndex = -1\n    var

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index = 0\n  for (item in this) {\n    checkIndexOverflow(index)\n    if (element == item)\n      lastIndex = index\n      index++\n  }\n  return lastIndex\n}\n\n/**\n * Returns the last element, or `null` if the sequence is empty.\n *\n * The operation is _terminal_.\n *\n * @sample\n samples.collections.Collections.Elements.last\n */\npublic fun <T> Sequence<T>.lastOrNull(): T? {\n  val iterator = iterator()\n  if (!iterator.hasNext())\n    return null\n  var last = iterator.next()\n  while (iterator.hasNext())\n    last = iterator.next()\n  return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n *\n * @sample\n samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n  var last: T? = null\n  for (element in this) {\n    if (predicate(element)) {\n      last = element\n    }\n  }\n  return last\n}\n\n/**\n * Returns the single element, or throws an exception if the sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.single(): T {\n  val iterator = iterator()\n  if (!iterator.hasNext())\n    throw NoSuchElementException("Sequence is empty.")\n  val single = iterator.next()\n  if (iterator.hasNext())\n    throw IllegalArgumentException("Sequence has more than one element.")\n  return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.single(predicate: (T) -> Boolean): T {\n  var single: T? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found) throw IllegalArgumentException("Sequence contains more than one matching element.")\n      single = element\n      found = true\n    }\n  }\n  if (!found) throw NoSuchElementException("Sequence contains no element matching the predicate.")\n  @SuppressWarnings("UNCHECKED_CAST")\n  return single as T\n}\n\n/**\n * Returns single element, or `null` if the sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.singleOrNull(): T? {\n  val iterator = iterator()\n  if (!iterator.hasNext())\n    return null\n  val single = iterator.next()\n  if (iterator.hasNext())\n    return null\n  return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n  var single: T? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null\n      single = element\n      found = true\n    }\n  }\n  if (!found) return null\n  return single\n}\n\n/**\n * Returns a sequence containing all elements except first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n * @sample\n samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.drop(n: Int): Sequence<T> {\n  require(n >= 0) { "Requested element count $n is less than zero." }\n  return when {\n    n == 0 -> this\n    this is DropTakeSequence -> this.drop(n)\n    else -> DropSequence(this, n)\n  }\n}\n\n/**\n * Returns a sequence containing all elements except first elements that satisfy the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample\n samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.dropWhile(predicate: (T) -> Boolean): Sequence<T> {\n  return DropWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample\n samples.collections.Collections.Filtering.filter\n */\npublic fun <T> Sequence<T>.filter(predicate: (T) -> Boolean): Sequence<T> {\n  return FilteringSequence(this, true, predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the given [predicate].\n *\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample\n samples.collections.Collections.Filtering.filterIndexed\n */\npublic fun <T> Sequence<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): Sequence<T> {\n  // TODO: Rewrite with generalized MapFilterIndexingSequence\n  return TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index,

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it.value) }), { it.value })\n\n/**\n * Appends all elements matching the given [predicate] to the given
[destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n * \n\npublic inline fun <T, C : MutableCollection<in T>>
Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n    forEachIndexed {
index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return
destination\n}\n\n/**\n * Returns a sequence containing all elements that are instances of specified type parameter
R.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstance\n * \n\npublic inline fun <reified R>
Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer
R> {\n    @Suppress("\n\nUNCHECKED_CAST")\n    return filter { it is R } as Sequence<R>\n}\n\n/**\n * Appends
all elements that are instances of specified type parameter R to the given [destination].\n * \n * The operation is
_intermediate_.\n * \n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo\n * \n\npublic inline fun
<reified R, C : MutableCollection<in R>> Sequence<*>.filterIsInstanceTo(destination: C): C {\n    for (element in
this) if (element is R) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a sequence containing
all elements not matching the given [predicate].\n * \n * The operation is _intermediate_ and _stateless_.\n * \n *
@sample samples.collections.Collections.Filtering.filter\n * \n\npublic fun <T> Sequence<T>.filterNot(predicate: (T)
-> Boolean): Sequence<T> {\n    return FilteringSequence(this, false, predicate)\n}\n\n/**\n * Returns a sequence
containing all elements that are not `null`.\n * \n * The operation
is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Filtering.filterNotNull\n * \n\npublic fun <T : Any> Sequence<T?>.filterNotNull(): Sequence<T> {\n
@Suppress("\n\nUNCHECKED_CAST")\n    return filterNot { it == null } as Sequence<T>\n}\n\n/**\n * Appends all
elements that are not `null` to the given [destination].\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNullTo\n * \n\npublic fun <C : MutableCollection<in T>, T : Any>
Sequence<T?>.filterNotNullTo(destination: C): C {\n    for (element in this) if (element != null)
destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements not matching the given
[predicate] to the given [destination].\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n * \n\npublic inline fun <T, C : MutableCollection<in T>>
Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C
{\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n *
Appends all elements matching the given [predicate] to the given [destination].\n * \n * The operation is
_intermediate_.\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n * \n\npublic inline fun <T, C :
MutableCollection<in T>> Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n    for (element in
this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a sequence
containing first [n] elements.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @throws
IllegalArgumentExcep\n * \n * \n * @sample
samples.collections.Collections.Transformations.take\n * \n\npublic fun <T> Sequence<T>.take(n: Int): Sequence<T>
{\n    require(n >= 0) { "\n\nRequested element count $n is less than zero.\n" }\n    return when {\n        n == 0 ->
emptySequence()\n        this is DropTakeSequence\n        -> this.take(n)\n        else -> TakeSequence(this, n)\n    }\n}\n\n/**\n * Returns a sequence containing first elements
satisfying the given [predicate].\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.take\n * \n\npublic fun <T> Sequence<T>.takeWhile(predicate: (T)
-> Boolean): Sequence<T> {\n    return TakeWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence that
yields elements of this sequence sorted according to their natural sort order.\n * \n * The sort is _stable_. It means
that equal elements preserve their order relative to each other after sorting.\n * \n * The operation is _intermediate_
and _stateful_.\n * \n * @public fun <T : Comparable<T>> Sequence<T>.sorted(): Sequence<T> {\n    return object :
Sequence<T> {\n        override fun iterator(): Iterator<T> {\n            val sortedList = this@sorted.toMutableList()\n            sortedList.sort()\n            return sortedList.iterator()\n        }
}

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`} \n } \n } \n \n /** \n * Returns a sequence that yields elements of this sequence sorted according to natural sort order of the value returned by specified [selector] function. \n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. \n * \n * The operation is _intermediate_ and _stateful_. \n * \n * @sample samples.collections.Collections.Sorting.sortedBy \n * \n public inline fun <T, R : Comparable<R>> Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> { \n return sortedWith(compareBy(selector)) \n } \n \n /** \n * Returns a sequence that yields elements of this sequence sorted descending according to natural sort order of the value returned by specified [selector] function. \n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. \n * \n * The operation is _intermediate_ and _stateful_. \n * \n public inline fun <T, R : Comparable<R>> Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> { \n return sortedWith(compareByDescending(selector)) \n } \n \n /** \n * Returns a sequence that yields elements of this sequence sorted descending according to their natural sort order. \n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. \n * \n * The operation is _intermediate_ and _stateful_. \n * \n public fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> { \n return sortedWith(reverseOrder()) \n } \n \n /** \n * Returns a sequence that yields elements of this sequence sorted according to the specified [comparator]. \n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. \n * \n * The operation is _intermediate_ and _stateful_. \n * \n public fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> { \n return object : Sequence<T> { \n override fun iterator(): Iterator<T> { \n val sortedList = this@sortedWith.toMutableList() \n sortedList.sortWith(comparator) \n return sortedList.iterator() \n } \n } \n } \n \n /** \n * Returns a [Map] containing key-value pairs provided by [transform] function \n * applied to elements of the given sequence. \n * \n * If any of two pairs would have the same key the last one gets added to the map. \n * \n * The returned map preserves the entry iteration order of the original sequence. \n * \n * The operation is _terminal_. \n * \n * @sample samples.collections.Collections.Transformations.associate \n * \n public inline fun <T, K, V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> { \n return associateTo(LinkedHashMap<K, V>(), transform) \n } \n \n /** \n * Returns a [Map] containing the elements from the given sequence indexed by the key \n * returned from [keySelector] function applied to each element. \n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n * \n * The returned map preserves the entry iteration order of the original sequence. \n * \n * The operation is _terminal_. \n * \n * @sample samples.collections.Collections.Transformations.associateBy \n * \n public inline fun <T, K> Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> { \n return associateByTo(LinkedHashMap<K, T>(), keySelector) \n } \n \n /** \n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given sequence. \n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n * \n * The returned map preserves the entry iteration order of the original sequence. \n * \n * The operation is _terminal_. \n * \n * @sample samples.collections.Collections.Transformations.associateByWithValueTransform \n * \n public inline fun <T, K, V> Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> { \n return associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform) \n } \n \n /** \n * Populates and returns the [destination] mutable map with key-value pairs, \n * where key is provided by the [keySelector] function applied to each element of the given sequence \n * and value is the element itself. \n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n * \n * The operation is _terminal_. \n * \n * @sample samples.collections.Collections.Transformations.associateByTo \n * \n public inline fun <T, K, M : MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M { \n for (element in this) { \n destination.put(keySelector(element), element) \n } \n return destination \n } \n \n /** \n * Populates and returns the [destination] mutable map with key-value pairs, \n * where key is provided by the [keySelector] function and \n * and value is provided by the [valueTransform] function`



applied

to elements of the given sequence.  
\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.  
\* The operation is `_terminal_`.  
\* @sample  
samples.collections.Collections.Transformations.associateByToWithValueTransform  
public inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {  
 for (element in this) {  
 destination.put(keySelector(element), valueTransform(element))  
 }  
 return destination  
}  
\* Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given sequence.  
\* If any of two pairs would have the same key the last one gets added to the map.  
\* The operation is `_terminal_`.  
\* @sample  
samples.collections.Collections.Transformations.associateTo  
public inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {  
 for (element in this) {  
 destination += transform(element)  
 }  
 return destination  
}  
\* Returns a [Map] where keys are elements from the given sequence and values are produced by the [valueSelector] function applied to each element.  
\* If any two elements are equal, the last one gets added to the map.  
\* The returned map preserves the entry iteration order of the original sequence.  
\* The operation is `_terminal_`.  
\* @sample  
samples.collections.Collections.Transformations.associateWith  
@SinceKotlin("1.3")  
public inline fun <K, V> Sequence<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {  
 val result = LinkedHashMap<K, V>()  
 return associateWithTo(result, valueSelector)  
}  
\* Populates and returns the [destination] mutable map with key-value pairs for each element of the given sequence, where key is the element itself and value is provided by the [valueSelector] function applied to that key.  
\* If any two elements are equal, the last one overwrites the former value in the map.  
\* The operation is `_terminal_`.  
\* @sample  
samples.collections.Collections.Transformations.associateWithTo  
@SinceKotlin("1.3")  
public inline fun <K, V, M : MutableMap<in K, in V>> Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {  
 for (element in this) {  
 destination.put(element, valueSelector(element))  
 }  
 return destination  
}  
\* Appends all elements to the given [destination] collection.  
\* The operation is `_terminal_`.  
public fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {  
 for (item in this) {  
 destination.add(item)  
 }  
 return destination  
}  
\* Returns a new [HashSet] of all elements.  
\* The operation is `_terminal_`.  
public fun <T> Sequence<T>.toHashSet(): HashSet<T> {  
 return toCollection(HashSet<T>())  
}  
\* Returns a [List] containing all elements.  
\* The operation is `_terminal_`.  
public fun <T> Sequence<T>.toList(): List<T> {  
 val it = iterator()  
 if (!it.hasNext())  
 return emptyList()  
 val element = it.next()  
 if (!it.hasNext())  
 return listOf(element)  
 val dst = ArrayList<T>()  
 dst.add(element)  
 while (it.hasNext())  
 dst.add(it.next())  
 return dst  
}  
\* Returns a new [MutableList] filled with all elements of this sequence.  
\* The operation is `_terminal_`.  
public fun <T> Sequence<T>.toMutableList(): MutableList<T> {  
 return toCollection(ArrayList<T>())  
}  
\* Returns a [Set] of all elements.  
\* The returned set preserves the element iteration order of the original sequence.  
\* The operation is `_terminal_`.  
public fun <T> Sequence<T>.toSet(): Set<T> {  
 val it = iterator()  
 if (!it.hasNext())  
 return emptySet()  
 val element = it.next()  
 if (!it.hasNext())  
 return setOf(element)  
 val dst = LinkedHashSet<T>()  
 dst.add(element)  
 while (it.hasNext())  
 dst.add(it.next())  
 return dst  
}  
\* Returns a single sequence of all elements from results of [transform] function being invoked on each element of original sequence.  
\* The operation is `_intermediate_` and `_stateless_`.  
\* @sample  
samples.collections.Collections.Transformations.flatMap  
@SinceKotlin("1.4")  
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)  
@OverloadResolutionByLambdaReturnType  
@kotlin.jvm.JvmName("flatMapIterable")  
public fun <T, R> Sequence<T>.flatMap(transform: (T) -> Iterable<R>): Sequence<R> {  
 return FlatteningSequence(this, transform, Iterable<R>::iterator)  
}  
\* Returns a single sequence of all elements from results of [transform] function being invoked on each element of original sequence.  
\* The operation is `_intermediate_` and

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_stateless_.\n
 * \n * @sample samples.collections.Collections.Transformations.flatMap\n * \n public fun <T, R>
Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {\n    return FlatteningSequence(this,
transform, Sequence<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original sequence.\n * \n * The operation
is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
 * \n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapIndexedIterable")\n public fun <T, R>
Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): Sequence<R> {\n    return
flatMapIndexed(this, transform, Iterable<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements
yielded from results of [transform] function
being invoked on each element\n * and its index in the original sequence.\n * \n * The operation is _intermediate_
and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
 * \n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapIndexedSequence")\n public fun <T, R>
Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): Sequence<R> {\n    return
flatMapIndexed(this, transform, Sequence<R>::iterator)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original sequence, to the given
[destination].\n * \n * The operation is _terminal_.\n
 * \n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n @kotlin.internal.InlineOnly\n public
inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =
transform(checkIndexOverflow(index++), element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element\n * and its index in the original sequence, to the given [destination].\n * \n * The operation is _terminal_.\n
 * \n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n @kotlin.internal.InlineOnly\n public
inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =
transform(checkIndexOverflow(index++),
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element of original sequence, to the given [destination].\n * \n
 * The operation is _terminal_.\n
 * \n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.jvm.JvmName("flatMapIterableTo")\n public inline fun <T, R, C :
MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original sequence, to the given [destination].\n * \n * The operation is _terminal_.\n * \n public inline fun
<T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination:
C, transform: (T) -> Sequence<R>): C {\n    for (element in this) {\n        val list = transform(element)\n
destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the original sequence by the
key returned by the given [keySelector] function\n * applied to each element and returns a map where each group
key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order
of the keys produced from the original sequence.\n * \n * The operation is _terminal_.\n * \n * @sample

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samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K>
Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n    return groupByTo(LinkedHashMap<K,
MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to
each element of the original sequence\n * by the key returned by the given [keySelector] function applied to the
element\n * and
    returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map
preserves the entry iteration order of the keys produced from the original sequence.\n *\n * The operation is
_terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\npublic inline fun <T, K, V> Sequence<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,
List<V>> {\n    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n}\n\n/**\n * Groups elements of the original sequence by the key returned by the given
[keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with
a list of corresponding elements.\n * \n * @return The [destination] map.\n *\n * The operation is _terminal_.\n * \n
* @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M :
MutableMap<in K, MutableList<T>>> Sequence<T>.groupByTo(destination:
M, keySelector: (T) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<T>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n *
Groups values returned by the [valueTransform] function applied to each element of the original sequence\n * by the
key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each
group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n *\n * The
operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<V>()
    }\n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Creates a [Grouping] source
from a sequence to be used later with one of group-and-fold operations\n * using the specified [keySelector]
function to extract a key from each element.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n *
@sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin("1.1")\npublic inline fun <T,
K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n    return object :
Grouping<T, K> {\n        override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n        override fun
keyOf(element: T): K = keySelector(element)\n    }\n}\n\n/**\n * Returns a sequence containing the results of
applying the given [transform] function\n * to each element in the original sequence.\n * \n * The operation is
_intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic
fun <T, R> Sequence<T>.map(transform: (T) -> R): Sequence<R> {\n    return TransformingSequence(this,
transform)\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to
each element and its index in the original sequence.\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The
operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R> Sequence<T>.mapIndexed(transform: (index:
Int, T) -> R): Sequence<R> {\n    return TransformingIndexedSequence(this, transform)\n}\n\n/**\n * Returns a
sequence containing only the non-null results of applying the given [transform] function\n * to each element and its
index in the original sequence.\n * @param [transform] function that takes the index of an element and the element
itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is
_intermediate_ and _stateless_.\n */\npublic fun <T, R : Any> Sequence<T>.mapIndexedNotNull(transform:
(index: Int, T) -> R?): Sequence<R> {\n    return TransformingIndexedSequence(this,
transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the
original sequence\n * and appends only the non-null results to the given [destination].\n * @param [transform]
function that takes the index of an element and the element itself\n * and returns the result of the transform applied

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to the element.\n \* The operation is `_terminal_`.\n \*/\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination}\n}\n\n/\*\*\n \* Applies the given [transform] function to each element and its index in the original sequence\n \* and appends the results to

the given [destination].\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \*/\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(checkIndexOverflow(index++), item))\n return destination}\n}\n\n/\*\*\n \* Returns a sequence containing only the non-null results of applying the given [transform] function\n \* to each element in the original sequence.\n \* The operation is `_intermediate_` and `_stateless_`.\n \*/\n \* @sample samples.collections.Collections.Transformations.mapNotNull\n \*/\npublic fun <T, R : Any> Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {\n return TransformingSequence(this, transform).filterNotNull()\n}\n\n/\*\*\n \* Applies the given [transform] function to each element in the original sequence\n \* and appends only the non-null results to the given [destination].\n \*/\n \* The operation is `_terminal_`.\n \*/\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination}\n}\n\n/\*\*\n \* Applies the given [transform] function to each element of the original sequence\n \* and appends the results to the given [destination].\n \* The operation is `_terminal_`.\n \*/\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapTo(destination: C, transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination}\n}\n\n/\*\*\n \* Returns a sequence that wraps each element of the original sequence\n \* into an [IndexedValue] containing the index of that element and the element itself.\n \* The operation is `_intermediate_` and `_stateless_`.\n \*/\n \*/\npublic fun <T> Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {\n return IndexingSequence(this)\n}\n\n/\*\*\n \* Returns a sequence containing only distinct elements from the given sequence.\n \* Among equal elements of the given sequence, only the first one will be present in the resulting sequence.\n \* The elements in the resulting sequence are in the same order as they were in the source sequence.\n \* The operation is `_intermediate_` and `_stateful_`.\n \*/\n \* @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n \*/\npublic fun <T> Sequence<T>.distinct(): Sequence<T> {\n return this.distinctBy { it }\n}\n\n/\*\*\n \* Returns a sequence containing only elements from the given sequence\n \* having distinct keys returned by the given [selector] function.\n \* Among elements of the given sequence with equal keys, only the first one will be present in the resulting sequence.\n \* The elements in the resulting sequence are in the same order as they were in the source sequence.\n \* The operation is `_intermediate_` and `_stateful_`.\n \*/\n \* @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n \*/\npublic fun <T, K> Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {\n return DistinctSequence(this, selector)\n}\n\n/\*\*\n \* Returns a new [MutableSet] containing all distinct elements from the given sequence.\n \* The returned set preserves the element iteration order of the original sequence.\n \* The operation is `_terminal_`.\n \*/\n \*/\npublic fun <T> Sequence<T>.toMutableSet(): MutableSet<T> {\n val set = LinkedHashSet<T>()\n for (item in this) set.add(item)\n return set}\n}\n\n/\*\*\n \* Returns `true` if all elements match the given [predicate].\n \* Note that if the sequence contains no elements, the function returns `true`\n \* because there are no elements in it that `_do not_` match the predicate.\n \* See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth)

article.\n \* The operation is `_terminal_`.\n \*/\n \* @sample samples.collections.Collections.Aggregates.all\n \*/\npublic inline fun <T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true}\n}\n\n/\*\*\n \* Returns `true` if sequence has at least one element.\n \*/

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*\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.any\n * \npublic
fun <T> Sequence<T>.any(): Boolean {\n    return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one
element matches the given [predicate].\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n * \npublic inline fun <T>
Sequence<T>.any(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
true\n    return false\n}\n\n/**\n * Returns the number of elements in this sequence.\n * \n
* The operation is _terminal_.\n * \npublic fun <T> Sequence<T>.count(): Int {\n    var count = 0\n    for (element
in this) checkCountOverflow(++count)\n    return count\n}\n\n/**\n * Returns the number of elements matching the
given [predicate].\n * \n * The operation is _terminal_.\n * \npublic inline fun <T> Sequence<T>.count(predicate:
(T) -> Boolean): Int {\n    var count = 0\n    for (element in this) if (predicate(element))
checkCountOverflow(++count)\n    return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the
specified [initial] value if the sequence is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n * \n * The operation is _terminal_.\n
*\npublic inline fun <T, R> Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n    var accumulator =
initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n
* Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator
value and each element with its index in the original sequence.\n * \n * Returns the specified [initial] value if the
sequence is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value\n * and the element itself, and calculates the next accumulator value.\n * \n * The operation is _terminal_.\n
*\npublic inline fun <T, R> Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n
    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator =
operation(checkIndexOverflow(index++), accumulator, element)\n    return accumulator\n}\n\n/**\n * Performs the
given [action] on each element.\n * \n * The operation is _terminal_.\n * \npublic inline fun <T>
Sequence<T>.forEach(action:
(T) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each
element, providing sequential index with the element.\n * \n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n * \n * The operation is _terminal_.\n
*\npublic inline fun <T> Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n    var index = 0\n
for (item in this) action(checkIndexOverflow(index++), item)\n}\n\n/**\n * Returns the largest element.\n * \n * If
any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrNull")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun Sequence<Double>.max(): Double {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw
NoSuchElementException()\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        max = maxOf(max, e)\n    }\n    return
max\n}\n\n/**\n * Returns the largest element.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The
operation is _terminal_.\n * \n * @throws NoSuchElementException if the sequence is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrNull")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun Sequence<Float>.max(): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw
NoSuchElementException()\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n
* The operation is _terminal_.\n * \n * @throws NoSuchElementException if the sequence is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrNull")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun <T : Comparable<T>> Sequence<T>.max():
T {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var max =
iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function.\n * \n * The

```

operation is `_terminal_`.  
 \* `@throws NoSuchElementException` if the sequence is empty.  
 \* `@sample`  
`samples.collections.Collections.Aggregates.maxBy`  

```

*@SinceKotlin("1.7")@kotlin.jvm.JvmName("maxByOrThrow")@Suppress("CONFLICTING_OVERLOADS")
public inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) -> R): T {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var maxElem = iterator.next()
    if (!iterator.hasNext()) return maxElem
    var maxValue = selector(maxElem)
    do {
        val e = iterator.next()
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    } while (iterator.hasNext())
    return maxElem
}

```

\* Returns the first element yielding the largest value of the given function or `null` if there are no elements.  
 \* The operation is `_terminal_`.  
 \* `@sample`  
`samples.collections.Collections.Aggregates.maxByOrNull`  

```

*@SinceKotlin("1.4")
public inline fun <T, R : Comparable<R>> Sequence<T>.maxByOrNull(selector: (T) -> R): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var maxElem = iterator.next()
    if (!iterator.hasNext()) return maxElem
    var maxValue = selector(maxElem)
    do {
        val e = iterator.next()
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    } while (iterator.hasNext())
    return maxElem
}

```

\* Returns the largest value among all values produced by `[selector]` function applied to each element in the sequence.  
 \* If any of values produced by `[selector]` function is `NaN`, the returned result is `NaN`.  
 \* The operation is `_terminal_`.  
 \* `@throws NoSuchElementException` if the sequence is empty.  
 \* `@SinceKotlin("1.4")``@OptIn(kotlin.experimental.ExperimentalTypeInference::class)``@OverloadResolutionByLambdaReturnType``@kotlin.internal.InlineOnly`  

```

public inline fun <T> Sequence<T>.maxOf(selector: (T) -> Double): Double {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

```

\* Returns the largest value among all values produced by `[selector]` function applied to each element in the sequence.  
 \* If any of values produced by `[selector]` function is `NaN`, the returned result is `NaN`.  
 \* The operation is `_terminal_`.  
 \* `@throws NoSuchElementException` if the sequence is empty.  
 \* `@SinceKotlin("1.4")``@OptIn(kotlin.experimental.ExperimentalTypeInference::class)``@OverloadResolutionByLambdaReturnType``@kotlin.internal.InlineOnly`  

```

public inline fun <T> Sequence<T>.maxOf(selector: (T) -> Float): Float {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

```

\* Returns the largest value among all values produced by `[selector]` function applied to each element in the sequence.  
 \* The operation is `_terminal_`.  
 \* `@throws NoSuchElementException` if the sequence is empty.  
 \* `@SinceKotlin("1.4")``@OptIn(kotlin.experimental.ExperimentalTypeInference::class)``@OverloadResolutionByLambdaReturnType``@kotlin.internal.InlineOnly`  

```

public inline fun <T, R : Comparable<R>> Sequence<T>.maxOf(selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

```

\* Returns the largest value among all values produced by `[selector]` function applied to each element in the sequence or `null` if there are no elements.  
 \* If any of values produced by `[selector]` function is `NaN`, the returned result is `NaN`.  
 \* The operation is `_terminal_`.  
 \* `@SinceKotlin("1.4")``@OptIn(kotlin.experimental.ExperimentalTypeInference::class)``@OverloadResolutionByLambdaReturnType``@kotlin.internal.InlineOnly`  

```

public inline fun <T> Sequence<T>.maxOfOrNull(selector: (T) -> Double): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

```

\* Returns the largest value among all values produced by `[selector]` function applied to each element in the sequence or

```

`null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result
is `NaN`.\n * \n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOrNull(selector:
(T) -> Float): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        max =
maxOf(max, v)\n    }\n    return max\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the
sequence or `null` if there are no elements.\n * \n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.maxOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return
null\n    var max = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v =
selector(iterator.next())\n        if (max < v) {\n            max = v\n        }\n    }\n    return
max\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the sequence.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n * \n * The operation
is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.maxWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) throw NoSuchElementException()\n    var max = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(max, v) < 0) {\n
            max = v\n        }\n    }\n    return max\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the sequence or `null`
if there are no elements.\n * \n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Sequence<T>.maxWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n
    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(max, v) < 0) {\n
            max = v\n        }\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no
elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\npublic fun Sequence<Double>.maxOrNull(): Double? {\n    val iterator = iterator()\n
    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n * \n *
If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\npublic fun Sequence<Float>.maxOrNull(): Float? {\n    val iterator = iterator()\n
    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * The operation
is _terminal_.\n
*\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Sequence<T>.maxOrNull(): T? {\n
    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator].\n * \n * The operation is
_terminal_.\n * \n * @throws NoSuchElementException if the sequence
is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVER

```

```

LOADS`)
public fun <T> Sequence<T>.maxWith(comparator: Comparator<in T>): T {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/** Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
public fun <T> Sequence<T>.maxOrNull(comparator: Comparator<in T>): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/** Returns the smallest element.
 * If any of elements is `NaN` returns `NaN`.
 * The operation is _terminal_.
 * @throws NoSuchElementException if the sequence is empty.
 */
@SinceKotlin("1.7")
@kotlin.jvm.JvmName("minOrThrow")
@Suppress("CONFLICTING_OVERLOADS")
public fun Sequence<Double>.min(): Double {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        min = minOf(min, e)
    }
    return min
}

/** Returns the smallest element.
 * If any of elements is `NaN` returns `NaN`.
 * The operation is _terminal_.
 * @throws NoSuchElementException if the sequence is empty.
 */
@SinceKotlin("1.7")
@kotlin.jvm.JvmName("minOrThrow")
@Suppress("CONFLICTING_OVERLOADS")
public fun Sequence<Float>.min(): Float {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        min = minOf(min, e)
    }
    return min
}

/** Returns the smallest element.
 * The operation is _terminal_.
 * @throws NoSuchElementException if the sequence is empty.
 */
@SinceKotlin("1.7")
@kotlin.jvm.JvmName("minOrThrow")
@Suppress("CONFLICTING_OVERLOADS")
public fun <T : Comparable<T>> Sequence<T>.min(): T {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (min > e) min = e
    }
    return min
}

/** Returns the first element yielding the smallest value of the given function.
 * The operation is _terminal_.
 * @throws NoSuchElementException if the sequence is empty.
 * @sample samples.collections.Collections.Aggregates.minBy
 */
@SinceKotlin("1.7")
@kotlin.jvm.JvmName("minByOrThrow")
@Suppress("CONFLICTING_OVERLOADS")
public inline fun <T, R : Comparable<R>> Sequence<T>.minBy(selector: (T) -> R): T {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minElem = iterator.next()
    if (!iterator.hasNext()) return minElem
    var minValue = selector(minElem)
    do {
        val e = iterator.next()
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    } while (iterator.hasNext())
    return minElem
}

/** Returns the first element yielding the smallest value of the given function or `null` if there are no elements.
 * The operation is _terminal_.
 * @sample samples.collections.Collections.Aggregates.minByOrNull
 */
@SinceKotlin("1.4")
public inline fun <T, R : Comparable<R>> Sequence<T>.minByOrNull(selector: (T) -> R): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minElem = iterator.next()
    if (!iterator.hasNext()) return minElem
    var minValue = selector(minElem)
    do {
        val e = iterator.next()
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    } while (iterator.hasNext())
    return minElem
}

/** Returns the smallest value among all values produced by [selector] function
 * applied to each element in the sequence.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 * The operation is _terminal_.
 * @throws NoSuchElementException if the sequence is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minOf(selector: (T) ->

```



```

Double): Double {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

/** Returns the smallest value among all values produced by [selector] function applied to each element in the sequence.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 * The operation is _terminal_.
 * @throws NoSuchElementException if the sequence is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minOf(selector: (T) -> Float): Float {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

/** Returns the smallest value among all values produced by [selector] function applied to each element in the sequence.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 * The operation is _terminal_.
 * @throws NoSuchElementException if the sequence is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>> Sequence<T>.minOf(selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/** Returns the smallest value among all values produced by [selector] function applied to each element in the sequence or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minOrNull(selector: (T) -> Double): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

/** Returns the smallest value among all values produced by [selector] function applied to each element in the sequence or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minOrNull(selector: (T) -> Float): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

/** Returns the smallest value among all values produced by [selector] function applied to each element in the sequence or `null` if there are no elements.
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>> Sequence<T>.minOrNull(selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/** Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the sequence.
 * @throws NoSuchElementException if the sequence is empty.
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Sequence<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    val iterator = iterator()
    if

```

```

(iterator.hasNext()) throw NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(minValue,
v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value
according to the provided [comparator]\n * among all values produced by [selector] function applied to each
element in the sequence or `null` if there are no elements.\n *\n * The operation is _terminal_.\n
*\n *@SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.internal.InlineOnly\n public inline fun <T, R>
Sequence<T>.minOfOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    val iterator =
iterator()\n    if (!iterator.hasNext()) return null\n    var minValue = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(minValue, v) > 0) {\n
            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are
no elements.\n *\n * If any
of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n *\n *@SinceKotlin("1.4")\n public fun
Sequence<Double>.minOrNull(): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n
    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        min =
minOf(min, e)\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n * If any of
elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n *\n *@SinceKotlin("1.4")\n public fun
Sequence<Float>.minOrNull(): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n
    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        min =
minOf(min, e)\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n * The operation is
_terminal_.\n *\n *@SinceKotlin("1.4")\n public
fun <T : Comparable<T>> Sequence<T>.minOrNull(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext())
return null\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n
        if (min >
e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the smallest value according to the
provided [comparator].\n *\n * The operation is _terminal_.\n *\n * @throws NoSuchElementException if the
sequence is empty.\n
*\n *@SinceKotlin("1.7")\n @kotlin.jvm.JvmName("minWithOrThrow")\n @Suppress("CONFLICTING_OVERLOADS")\n public fun <T>
Sequence<T>.minWith(comparator: Comparator<in T>): T {\n    val iterator =
iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var min = iterator.next()\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(min, e) > 0) min = e\n    }\n
    return
min\n}\n\n/**\n * Returns the first element having the smallest value according
to the provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n
*\n *@SinceKotlin("1.4")\n public fun <T> Sequence<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n
    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(min, e) > 0) min = e\n    }\n
    return
min\n}\n\n/**\n * Returns `true` if the sequence has no elements.\n *\n * The operation is _terminal_.\n *\n
*\n @sample samples.collections.Collections.Aggregates.none\n *\n public fun <T> Sequence<T>.none(): Boolean {\n
    return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n *\n * The
operation is _terminal_.\n *\n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n public inline fun <T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n    for (element
in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Returns a sequence which performs the
given [action] on each element of the original sequence as they pass through it.\n *\n * The operation is
_intermediate_ and _stateless_.\n *\n *@SinceKotlin("1.1")\n public fun <T> Sequence<T>.onEach(action: (T) ->
Unit): Sequence<T> {\n    return map {\n        action(it)\n        it\n    }\n}\n\n/**\n * Returns a sequence which
performs the given [action] on each element of the original sequence as they pass through it.\n *\n * @param [action]
function that takes the index of an element and the element itself\n * and performs the action on the element.\n
*\n * The operation is _intermediate_ and _stateless_.\n *\n *@SinceKotlin("1.4")\n public fun <T>
Sequence<T>.onEachIndexed(action: (index: Int, T) -> Unit): Sequence<T> {\n    return mapIndexed { index,

```



```

element)\n        yield(accumulator)\n        }\n    }\n}\n\n/**\n * Returns a sequence containing successive
accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original
sequence and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n
* The [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation]
function later because of sequence's lazy nature.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n *\n * The
operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n *\n@SinceKotlin("1.4")\npublic fun <T, R>
Sequence<T>.runningFold(initial:
R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {\n    return sequence {\n        yield(initial)\n        var index
= 0\n        var accumulator = initial\n        for (element in this@runningFoldIndexed) {\n            accumulator =
operation(checkIndexOverflow(index++), accumulator, element)\n            yield(accumulator)\n        }\n    }\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with the first element of this
sequence.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting sequence.\n * \n * @param [operation] function that takes current accumulator
value and the element, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and
_stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <S, T : S>
Sequence<T>.runningReduce(operation: (acc: S, T) -> S): Sequence<S> {\n    return sequence {\n        val iterator =
iterator()\n        if (iterator.hasNext()) {\n            var accumulator: S = iterator.next()\n            yield(accumulator)\n            while (iterator.hasNext()) {\n                accumulator = operation(accumulator, iterator.next())\n            }\n        }\n    }\n}\n\n/**\n * Returns a sequence containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original sequence and
current accumulator value that starts with the first element of this sequence.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n
* \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n *\n@SinceKotlin("1.4")\npublic fun <S, T : S>
Sequence<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): Sequence<S> {\n    return sequence
{\n        val iterator = iterator()\n        if (iterator.hasNext()) {\n            var accumulator: S = iterator.next()\n            yield(accumulator)\n            var index = 1\n            while (iterator.hasNext()) {\n                accumulator =
operation(checkIndexOverflow(index++), accumulator, iterator.next())\n                yield(accumulator)\n            }\n        }\n    }\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator
value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be
immutable (or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's
lazy nature.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T, R>
Sequence<T>.scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {\n    return runningFold(initial,
operation)\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original

```

sequence and current accumulator value that starts with [initial] value.

\* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.

\* The [initial] value should also be immutable (or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.

\* @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

\* The operation is `_intermediate_` and `_stateless_`.

```

@sample samples.collections.Collections.Aggregates.scan
*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^public fun <T, R>
Sequence<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {
    return
    runningFoldIndexed(initial, operation)
}

/**
 * Returns the sum of all values produced by [selector] function
 * applied to each element in the sequence.
 * The operation is _terminal_.
 *^@Deprecated("Use sumOf
 *instead.", ReplaceWith("this.sumOf(selector)"))
 *^@DeprecatedSinceKotlin(warningSince = "1.5")
 *^public inline
 *fun <T> Sequence<T>.sumBy(selector: (T) -> Int): Int {
 *    var sum: Int = 0
 *    for (element in this) {
 *        sum
 *        += selector(element)
 *    }
 *    return sum
 *}

/**
 * Returns the sum of all values produced by [selector]
 * function applied to each element in the sequence.
 * The operation is _terminal_.
 *^@Deprecated("Use
 *sumOf instead.", ReplaceWith("this.sumOf(selector)"))
 *^@DeprecatedSinceKotlin(warningSince =
 *"1.5")
 *^public inline fun <T> Sequence<T>.sumByDouble(selector: (T) -> Double): Double {
 *    var sum: Double
 *    = 0.0
 *    for (element in this) {
 *        sum += selector(element)
 *    }
 *    return sum
 *}

/**
 * Returns the sum
 * of all values produced by [selector] function applied to each element in the sequence.
 * The operation
 * is _terminal_.
 *^@SinceKotlin("1.4")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolution
 *ByLambdaReturnType^@kotlin.jvm.JvmName("sumOfDouble")^@kotlin.internal.InlineOnly^public inline fun
 *<T> Sequence<T>.sumOf(selector: (T) -> Double): Double {
 *    var sum: Double = 0.toDouble()
 *    for (element
 *    in this) {
 *        sum += selector(element)
 *    }
 *    return sum
 *}

/**
 * Returns the sum of all values produced
 * by [selector] function applied to each element in the sequence.
 * The operation is _terminal_.
 *^@SinceKotlin("1.4")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolution
 *ByLambdaReturnType^@kotlin.jvm.JvmName("sumOfInt")^@kotlin.internal.InlineOnly^public inline fun <T>
 *Sequence<T>.sumOf(selector: (T) -> Int): Int {
 *    var sum: Int = 0.toInt()
 *    for (element in this) {
 *        sum +=
 *        selector(element)
 *    }
 *    return sum
 *}

/**
 * Returns the sum of all values produced
 * by [selector] function applied to each element in the sequence.
 * The operation is _terminal_.
 *^@SinceKotlin("1.4")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolution
 *ByLambdaReturnType^@kotlin.jvm.JvmName("sumOfLong")^@kotlin.internal.InlineOnly^public inline fun
 *<T> Sequence<T>.sumOf(selector: (T) -> Long): Long {
 *    var sum: Long = 0.toLong()
 *    for (element in this)
 *    {
 *        sum += selector(element)
 *    }
 *    return sum
 *}

/**
 * Returns the sum of all values produced by
 * [selector] function applied to each element in the sequence.
 * The operation is _terminal_.
 *^@SinceKotlin("1.5")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolution
 *ByLambdaReturnType^@kotlin.jvm.JvmName("sumOfUInt")^@WasExperimental(ExperimentalUnsignedType
 *s::class)^@kotlin.internal.InlineOnly^public inline fun <T> Sequence<T>.sumOf(selector: (T) -> UInt): UInt {
 *    var sum: UInt = 0.toUInt()
 *    for
 *    (element in this) {
 *        sum += selector(element)
 *    }
 *    return sum
 *}

/**
 * Returns the sum of all values
 * produced by [selector] function applied to each element in the sequence.
 * The operation is _terminal_.
 *^@SinceKotlin("1.5")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolution
 *ByLambdaReturnType^@kotlin.jvm.JvmName("sumOfULong")^@WasExperimental(ExperimentalUnsignedTy
 *pes::class)^@kotlin.internal.InlineOnly^public inline fun <T> Sequence<T>.sumOf(selector: (T) -> ULong):
 *ULong {
 *    var sum: ULong = 0.toULong()
 *    for (element in this) {
 *        sum += selector(element)
 *    }
 *    return sum
 *}

/**
 * Returns an original collection containing all the non-`null` elements, throwing an
 * [IllegalArgumentException] if there are any `null` elements.
 * The operation is _intermediate_ and
 * _stateless_.
 *^@public fun <T : Any> Sequence<T?>.requireNonNulls(): Sequence<T> {
 *    return map { it ?
 *    throw IllegalArgumentException("null

```



```

\n * @sample samples.collections.Sequences.Transformations.partition\n *^\npublic inline fun <T>
Sequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n    val first = ArrayList<T>()\n    val
second = ArrayList<T>()\n    for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n
} else {\n        second.add(element)\n    }\n    return Pair(first, second)\n}\n\n/**\n * Returns a sequence
containing all elements of the original sequence and then the given [element].\n * The operation is
_intermediate_ and _stateless_.\n *^\npublic operator fun <T> Sequence<T>.plus(element: T): Sequence<T> {\n
return sequenceOf(this, sequenceOf(element)).flatten()\n}\n\n/**\n * Returns a
sequence containing all elements of original sequence and then all elements of the given [elements] array.\n * \n *
Note that the source sequence and the array being added are iterated only when an `iterator` is requested from\n *
the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n *
The operation is _intermediate_ and _stateless_.\n *^\npublic operator fun <T> Sequence<T>.plus(elements:
Array<out T>): Sequence<T> {\n    return this.plus(elements.asList())\n}\n\n/**\n * Returns a sequence containing
all elements of original sequence and then all elements of the given [elements] collection.\n * \n * Note that the
source sequence and the collection being added are iterated only when an `iterator` is requested from\n * the
resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n *
The operation is _intermediate_ and _stateless_.\n *^\npublic operator fun <T> Sequence<T>.plus(elements:
Iterable<T>): Sequence<T> {\n    return sequenceOf(this, elements.asSequence()).flatten()\n}\n\n/**\n * Returns a
sequence containing all elements of original sequence and then all elements of the given [elements] sequence.\n * \n *
Note that the source sequence and the sequence being added are iterated only when an `iterator` is requested
from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n
*\n * The operation is _intermediate_ and _stateless_.\n *^\npublic operator fun <T> Sequence<T>.plus(elements:
Sequence<T>): Sequence<T> {\n    return sequenceOf(this, elements).flatten()\n}\n\n/**\n * Returns a sequence
containing all elements of the original sequence and then the given [element].\n * The operation is
_intermediate_ and _stateless_.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Sequence<T>.plusElement(element: T): Sequence<T> {\n    return plus(element)\n}\n\n/**\n * Returns a sequence
of snapshots
of the window of the given [size]\n * sliding along this sequence with the given [step], where each\n * snapshot is a
list.\n * \n * Several last lists may have fewer elements than the given [size].\n * \n * Both [size] and [step] must be
positive and can be greater than the number of elements in this sequence.\n * @param size the number of elements
to take in each window\n * @param step the number of elements to move the window forward by on an each step,
by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by
default `false` which means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.takeWindows\n *^\n@SinceKotlin("1.2")\npublic fun <T>
Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<List<T>> {\n    return
windowedSequence(size, step, partialWindows, reuseBuffer = false)\n}\n\n/**\n * Returns a sequence of results of
applying the
given [transform] function to\n * an each list representing a view over the window of the given [size]\n * sliding
along this sequence with the given [step].\n * \n * Note that the list passed to the [transform] function is ephemeral
and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made
a snapshot of it.\n * Several last lists may have fewer elements than the given [size].\n * \n * Both [size] and [step]
must be positive and can be greater than the number of elements in this sequence.\n * @param size the number of
elements to take in each window\n * @param step the number of elements to move the window forward by on an
each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if
any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.averageWindows\n *^\n@SinceKotlin("1.2")\npublic fun <T,
R> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R):
Sequence<R> {\n    return windowedSequence(size, step, partialWindows, reuseBuffer =
true).map(transform)\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the

```

```

[other] sequence with the same index.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n
*\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Sequences.Transformations.zip\n * \npublic infix fun <T, R> Sequence<T>.zip(other:
Sequence<R>): Sequence<Pair<T, R>> {\n    return MergingSequence(this, other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The resulting sequence ends
as soon as the shortest input sequence ends.\n * \n *
The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Sequences.Transformations.zipWithTransform\n * \npublic fun <T, R, V>
Sequence<T>.zipWithTransform(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {\n    return
MergingSequence(this, other, transform)\n}\n\n/**\n * Returns a sequence of pairs of each two adjacent elements in
this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two elements.\n * \n * The
operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNext\n * \n@SinceKotlin("1.2")\npublic fun <T>
Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {\n    return zipWithNext { a, b -> a to b }\n}\n\n/**\n *
Returns a sequence containing the results of applying the given [transform] function\n * to an each pair of two
adjacent elements in this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two
elements.\n * \n *
The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n * \n@SinceKotlin("1.2")\npublic
fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {\n    return sequence result@
{\n        val iterator = iterator()\n        if (!iterator.hasNext()) return @result\n        var current = iterator.next()\n
while (iterator.hasNext()) {\n            val next = iterator.next()\n            yield(transform(current, next))\n
current = next\n        }\n    }\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and
using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-
negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the
[truncated] string (which defaults to "...").\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n
*\npublic fun <T, A : Appendable> Sequence<T>.joinTo(buffer: A, separator: CharSequence = "\n", prefix:
CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((T)
-> CharSequence)? = null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if
(++count > 1) buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n
buffer.appendElement(element, transform)\n        } else break\n    }\n    if (limit >= 0 && count > limit)
buffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n * Creates a string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will
be appended, followed by the [truncated] string
(which defaults to "...").\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n * \npublic fun <T>
Sequence<T>.joinToString(separator: CharSequence = "\n", prefix: CharSequence = "\n", postfix: CharSequence =
"\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {\n    return
joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original sequence returning its elements when being iterated.\n * \npublic fun <T>
Sequence<T>.asIterable(): Iterable<T> {\n    return Iterable { this.iterator() }\n}\n\n/**\n * Returns this sequence as
a [Sequence].\n * \n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.asSequence(): Sequence<T>
{\n    return this\n}\n\n/**\n * Returns an average value of elements in the sequence.\n * \n * The operation is
_terminal_.\n * \n@kotlin.jvm.JvmName("averageOfByte")\npublic

```



```

fun Sequence<Byte>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}
/* Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfShort")
public fun Sequence<Short>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}
/* Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfInt")
public fun Sequence<Int>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}
/* Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfLong")
public fun Sequence<Long>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}
/* Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfFloat")
public fun Sequence<Float>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}
/* Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Sequence<Double>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}
/* Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun Sequence<Byte>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}
/* Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfShort")
public fun Sequence<Short>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}
/* Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Sequence<Int>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}
/* Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Sequence<Long>.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}
/* Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Sequence<Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}
/* Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Sequence<Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}
}
/* Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SetsKt")
package kotlin.collections

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/* Returns a set containing all elements of the original set except the given [element].
 * The returned set preserves the element iteration order of the original set.
 */
public operator fun <T> Set<T>.minus(element: T): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(size))
    var removed = false
    return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }
}

```

```

* Returns a set containing all elements of the original set except the elements contained in the given [elements]
array.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun
<T> Set<T>.minus(elements: Array<out T>): Set<T> {\n    val result = LinkedHashSet<T>(this)\n    result.removeAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the original set
except the elements contained in the given [elements] collection.\n * \n * The returned set preserves the element
iteration order of the original set.\n */\npublic operator fun <T> Set<T>.minus(elements: Iterable<T>): Set<T> {\n
    val other = elements.convertToListIfNotCollection()\n    if (other.isEmpty())\n        return this.toSet()\n    if (other is
Set)\n        return this.filterNotTo(LinkedHashSet<T>()) { it in other }\n    val result = LinkedHashSet<T>(this)\n
    result.removeAll(other)\n    return result\n}\n\n/**\n * Returns a set containing
all elements of the original set except the elements contained in the given [elements] sequence.\n * \n * The
returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T>
Set<T>.minus(elements: Sequence<T>): Set<T> {\n    val result = LinkedHashSet<T>(this)\n
    result.removeAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the original set
except the given [element].\n * \n * The returned set preserves the element iteration order of the original set.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.minusElement(element: T): Set<T> {\n    return
minus(element)\n}\n\n/**\n * Returns a set containing all elements of the original set and then the given [element] if
it isn't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n
*/\npublic operator fun <T> Set<T>.plus(element: T): Set<T> {\n    val result =
LinkedHashSet<T>(mapCapacity(size
+ 1))\n    result.addAll(this)\n    result.add(element)\n    return result\n}\n\n/**\n * Returns a set containing all
elements of the original set and the given [elements] array,\n * which aren't already in this set.\n * \n * The returned
set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements:
Array<out T>): Set<T> {\n    val result = LinkedHashSet<T>(mapCapacity(this.size + elements.size))\n
    result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all elements of
the original set and the given [elements] collection,\n * which aren't already in this set.\n * The returned set
preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements:
Iterable<T>): Set<T> {\n    val result = LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull()?.let {
this.size + it } ?: this.size * 2))\n    result.addAll(this)\n    result.addAll(elements)\n
    return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements]
sequence,\n * which aren't already in this set.\n * \n * The returned set preserves the element iteration order of the
original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Sequence<T>): Set<T> {\n    val result =
LinkedHashSet<T>(mapCapacity(this.size * 2))\n    result.addAll(this)\n    result.addAll(elements)\n    return
result\n}\n\n/**\n * Returns a set containing all elements of the original set and then the given [element] if it isn't
already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.plusElement(element: T): Set<T> {\n    return
plus(element)\n}\n\n"/*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.random.*\n\n/**\n * Returns a
character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char
sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun
CharSequence.elementAt(index: Int): Char\n\n/**\n * Returns a character at the given [index] or the result of calling
the [defaultValue] function if the [index] is out of bounds of this char sequence.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n    return if (index >= 0 && index
<= lastIndex)

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get(index) else defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is
out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.elementAtOrNull(index: Int): Char? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns the first character matching the given [predicate], or `null` if no such
character was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.find(predicate: (Char) -> Boolean): Char? {\n
    return firstOrNull(predicate)\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no
such character was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.findLast(predicate: (Char) -> Boolean): Char? {\n
    return
lastOrNull(predicate)\n}\n\n/**\n * Returns the first character.\n * \n * @throws NoSuchElementException if the
char sequence is empty.\n * \npublic fun CharSequence.first(): Char {\n    if (isEmpty())\n        throw
NoSuchElementException("Char sequence is empty.")\n    return this[0]\n}\n\n/**\n * Returns the first character
matching the given [predicate].\n * @throws [NoSuchElementException] if no such character is found.\n * \npublic
inline fun CharSequence.first(predicate: (Char) -> Boolean): Char {\n    for (element in this) if (predicate(element))
return element\n    throw NoSuchElementException("Char sequence contains no character matching the
predicate.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to
characters of this char sequence in iteration order,\n * or throws [NoSuchElementException] if no non-null value
was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Any> CharSequence.firstNotNullOf(transform: (Char) -> R?): R {\n    return
firstNotNullOfOrNull(transform) ?: throw NoSuchElementException("No element of the char sequence was
transformed to a non-null value.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function
being applied to characters of this char sequence in iteration order,\n * or `null` if no non-null value was produced.\n
*\n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <R : Any>
CharSequence.firstNotNullOfOrNull(transform: (Char) -> R?): R? {\n    for (element in this) {\n        val result =
transform(element)\n        if (result != null) {\n            return result\n        }\n    }\n    return null\n}\n\n/**\n *
Returns the first character, or `null` if the char sequence is empty.\n * \npublic fun CharSequence.firstOrNull():
Char? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first character matching the given
[predicate], or `null` if character was not found.\n * \npublic inline fun CharSequence.firstOrNull(predicate: (Char) -
> Boolean): Char? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n *
Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this char sequence.\n * \n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.getOrElse(index:
Int, defaultValue: (Int) -> Char): Char {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of
this char sequence.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n * \npublic fun
CharSequence.getOrNull(index: Int): Char? {\n    return if (index >= 0 && index <= lastIndex)
get(index) else null\n}\n\n/**\n * Returns index of the first character matching the given [predicate], or -1 if the
char sequence does not contain such character.\n * \npublic inline fun CharSequence.indexOfFirst(predicate: (Char)
-> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last character matching the given [predicate], or -1 if the char sequence
does not contain such character.\n * \npublic inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean):
Int {\n    for (index in indices.reversed()) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns the last character.\n * \n * @throws NoSuchElementException if the char sequence
is empty.\n * \n * @sample samples.text.Strings.last\n * \npublic fun CharSequence.last(): Char {\n    if
(isEmpty())\n        throw NoSuchElementException("Char

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sequence is empty.})\n    return this[lastIndex]\n}\n\n/**\n * Returns the last character matching the given
[predicate].\n * \n * @throws NoSuchElementException if no such character is found.\n * \n * @sample
samples.text.Strings.last\n * \npublic inline fun CharSequence.last(predicate: (Char) -> Boolean): Char {\n    for
(index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n
}\n    throw NoSuchElementException("Char sequence contains no character matching the predicate.")\n}\n\n/**\n * Returns the last character, or `null` if the char sequence is empty.\n * \n * @sample samples.text.Strings.last\n
* \npublic fun CharSequence.lastOrNull(): Char? {\n    return if (isEmpty()) null else this[length - 1]\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n * \n * @sample
samples.text.Strings.last\n * \npublic inline fun CharSequence.lastOrNull(predicate:
(Char) -> Boolean): Char? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a random character from this char
sequence.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n
* \n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.random(): Char {\n    return
random(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified
source of randomness.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n
* \n@SinceKotlin("1.3")\npublic fun CharSequence.random(random: Random): Char {\n    if (isEmpty())\n    throw NoSuchElementException("Char sequence is empty.")\n    return get(random.nextInt(length))\n}\n\n/**\n * Returns a random character from this char sequence, or `null` if this char sequence is empty.\n
* \n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun CharSequence.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random character from this char sequence using the specified source of randomness, or `null` if this char sequence is
empty.\n * \n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
CharSequence.randomOrNull(random: Random): Char? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(length))\n}\n\n/**\n * Returns the single character, or throws an exception if the char sequence
is empty or has more than one character.\n * \npublic fun CharSequence.single(): Char {\n    return when (length)
{\n        0 -> throw NoSuchElementException("Char sequence is empty.")\n        1 -> this[0]\n        else -> throw
IllegalArgumentException("Char sequence has more than one element.")\n    }\n}\n\n/**\n * Returns the single
character matching the given [predicate],
or throws exception if there is no or more than one matching character.\n * \npublic inline fun
CharSequence.single(predicate: (Char) -> Boolean): Char {\n    var single: Char? = null\n    var found = false\n    for
(element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Char
sequence contains more than one matching element.")\n            single = element\n            found = true\n        }\n
}\n    if (!found) throw NoSuchElementException("Char sequence contains no character matching the
predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Char\n}\n\n/**\n * Returns single
character, or `null` if the char sequence is empty or has more than one character.\n * \npublic fun
CharSequence.singleOrNull(): Char? {\n    return if (length == 1) this[0] else null\n}\n\n/**\n * Returns the single
character matching the given [predicate], or `null` if character was not found or more than one character was
found.\n
* \npublic inline fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {\n    var single: Char? =
null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found)
return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a subsequence of this char sequence with the first [n] characters removed.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n * \npublic fun
CharSequence.drop(n: Int): CharSequence {\n    require(n >= 0) { "Requested character count $n is less than zero." }\n
}\n    return subSequence(n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string with the first [n] characters
removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.text.Strings.drop\n * \npublic fun String.drop(n: Int): String {\n    require(n

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>= 0) { \"Requested character count $n is less than zero.\" }\n  return
substring(n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence with the last [n]
characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.text.Strings.drop\n *\npublic fun CharSequence.dropLast(n: Int): CharSequence {\n  require(n >= 0) {\n
\"Requested character count $n is less than zero.\" }\n  return take((length - n).coerceAtLeast(0))\n}\n}\n\n/**\n *
Returns a string with the last [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is
negative.\n * \n * @sample samples.text.Strings.drop\n *\npublic fun String.dropLast(n: Int): String {\n  require(n
>= 0) {\n \"Requested character count $n is less than zero.\" }\n  return take((length -
n).coerceAtLeast(0))\n}\n}\n\n/**\n * Returns a subsequence of this char sequence containing all characters except last
characters that satisfy the given [predicate].\n * \n *
\n * @sample samples.text.Strings.drop\n *\npublic inline fun CharSequence.dropLastWhile(predicate: (Char) ->
Boolean): CharSequence {\n  for (index in lastIndex downTo 0)\n    if (!predicate(this[index]))\n      return
subSequence(0, index + 1)\n  return \"\"\n}\n}\n\n/**\n * Returns a string containing all characters except last
characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n *\npublic inline fun
String.dropLastWhile(predicate: (Char) -> Boolean): String {\n  for (index in lastIndex downTo 0)\n    if
(!predicate(this[index]))\n      return substring(0, index + 1)\n  return \"\"\n}\n}\n\n/**\n * Returns a subsequence
of this char sequence containing all characters except first characters that satisfy the given [predicate].\n * \n *
\n * @sample samples.text.Strings.drop\n *\npublic inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean):
CharSequence {\n  for (index in this.indices)\n    if (!predicate(this[index]))\n      return
subSequence(index, length)\n  return \"\"\n}\n}\n\n/**\n * Returns a string containing all characters
except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n *\npublic
inline fun String.dropWhile(predicate: (Char) -> Boolean): String {\n  for (index in this.indices)\n    if
(!predicate(this[index]))\n      return substring(index)\n  return \"\"\n}\n}\n\n/**\n * Returns a char sequence
containing only those characters from the original char sequence that match the given [predicate].\n * \n * @sample
samples.text.Strings.filter\n *\npublic inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence
{\n  return filterTo(StringBuilder(), predicate)\n}\n}\n\n/**\n * Returns a string containing only those characters from
the original string that match the given [predicate].\n * \n * @sample samples.text.Strings.filter\n *\npublic inline
fun String.filter(predicate: (Char) -> Boolean): String {\n
  return filterTo(StringBuilder(), predicate).toString()\n}\n}\n\n/**\n * Returns a char sequence containing only those
characters from the original char sequence that match the given [predicate].\n * @param [predicate] function that
takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the
character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n *\npublic inline fun
CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence {\n  return
filterIndexedTo(StringBuilder(), predicate)\n}\n}\n\n/**\n * Returns a string containing only those characters from the
original string that match the given [predicate].\n * @param [predicate] function that takes the index of a character
and the character itself\n * and returns the result of predicate evaluation on the character.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n *\npublic inline fun String.filterIndexed(predicate:
(index: Int, Char) -> Boolean): String {\n  return filterIndexedTo(StringBuilder(), predicate).toString()\n}\n}\n\n/**
\n * Appends all characters matching the given [predicate] to the given [destination].\n * @param [predicate] function
that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the
character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n *\npublic inline fun <C :
Appendable> CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n
  forEachIndexed { index, element ->\n    if (predicate(index, element)) destination.append(element)\n  }\n  return
destination\n}\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char
sequence that do not match the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n *\npublic inline
fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence
{\n  return filterNotTo(StringBuilder(), predicate)\n}\n}\n\n/**\n * Returns a string containing only those characters
from the original string that do not match the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n

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*^public inline fun String.filterNot(predicate: (Char) -> Boolean): String {\n    return filterNotTo(StringBuilder(),
predicate).toString()\n}\n\n/**\n * Appends all characters not matching the given [predicate] to the given
[destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n *^public inline fun <C :
Appendable> CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n    for (element in this)
if (!predicate(element)) destination.append(element)\n    return destination\n}\n\n/**\n * Appends all characters
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^public inline fun <C : Appendable>
CharSequence.filterTo(destination:
C, predicate: (Char) -> Boolean): C {\n    for (index in 0 until length) {\n        val element = get(index)\n        if
(predicate(element)) destination.append(element)\n    }\n    return destination\n}\n\n/**\n * Returns a char sequence
containing characters of the original char sequence at the specified range of [indices].\n *^public fun
CharSequence.slice(indices: IntRange): CharSequence {\n    if (indices.isEmpty()) return ""\n    return
subSequence(indices)\n}\n\n/**\n * Returns a string containing characters of the original string at the specified
range of [indices].\n *^public fun String.slice(indices: IntRange): String {\n    if (indices.isEmpty()) return ""\n
return substring(indices)\n}\n\n/**\n * Returns a char sequence containing characters of the original char sequence
at specified [indices].\n *^public fun CharSequence.slice(indices: Iterable<Int>): CharSequence {\n    val size =
indices.collectionSizeOrDefault(10)\n    if (size == 0) return ""\n
    val result = StringBuilder(size)\n    for (i in indices) {\n        result.append(get(i))\n    }\n    return
result\n}\n\n/**\n * Returns a string containing characters of the original string at specified [indices].\n
*^@kotlin.internal.InlineOnly\n *^public inline fun String.slice(indices: Iterable<Int>): String {\n    return (this as
CharSequence).slice(indices).toString()\n}\n\n/**\n * Returns a subsequence of this char sequence containing the
first [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n *
@throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n *^public fun
CharSequence.take(n: Int): CharSequence {\n    require(n >= 0) { "Requested character count $n is less than zero." }\n
    return subSequence(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a string containing the first [n]
characters from this string, or the entire string if this string is shorter.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n *^public fun
String.take(n: Int): String {\n    require(n >= 0) { "Requested character count $n is less than zero." }\n    return
substring(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing the last
[n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n *^public fun
CharSequence.takeLast(n: Int): CharSequence {\n    require(n >= 0) { "Requested character count $n is less than
zero." }\n    val length = length\n    return subSequence(length - n.coerceAtMost(length), length)\n}\n\n/**\n *
Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.\n * \n *
@throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n *^public fun
String.takeLast(n: Int): String {\n    require(n >= 0) { "Requested character count $n is less than
zero." }\n    val length = length\n    return substring(length - n.coerceAtMost(length))\n}\n\n/**\n * Returns a
subsequence of this char sequence containing last characters that satisfy the given [predicate].\n * \n * @sample
samples.text.Strings.take\n *^public inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean):
CharSequence {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return
subSequence(index + 1, length)\n        }\n    }\n    return subSequence(0, length)\n}\n\n/**\n * Returns a string
containing last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n *^public
inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String {\n    for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n        return substring(index
+ 1)\n    }\n    return this\n}\n\n/**\n * Returns a subsequence of this char sequence containing the first
characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n *^public inline fun
CharSequence.takeWhile(predicate: (Char) -> Boolean): CharSequence {\n    for (index in 0 until length)\n        if
(!predicate(get(index))) {\n            return subSequence(0, index)\n        }\n    return subSequence(0,

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length)\n}\n\n/**\n * Returns a string containing the first characters that satisfy the given [predicate].\n * \n *
@sample samples.text.Strings.take\n */\npublic inline fun String.takeWhile(predicate: (Char) -> Boolean): String
{\n    for (index in 0 until length)\n        if (!predicate(get(index))) {\n            return substring(0, index)\n        }\n    return this\n}\n\n/**\n * Returns a char sequence with characters in reversed order.\n * \n\npublic fun
CharSequence.reversed(): CharSequence {\n    return StringBuilder(this).reverse()\n}\n\n/**\n * Returns a string with characters in reversed order.\n * \n\n@kotlin.internal.InlineOnly\npublic inline fun
String.reversed(): String {\n    return (this as CharSequence).reversed().toString()\n}\n\n/**\n * Returns a [Map]
containing key-value pairs provided by [transform] function\n * applied to characters of the given char sequence.\n *
\n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original char sequence.\n * \n * \n * @sample samples.text.Strings.associate\n
*/\npublic inline fun <K, V> CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n    val
capacity = mapCapacity(length).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing the characters from the given char sequence indexed by the
key\n * returned from [keySelector] function applied to each character.\n * \n * \n * If
any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
The returned map preserves the entry iteration order of the original char sequence.\n * \n * \n * @sample
samples.text.Strings.associateBy\n */\npublic inline fun <K> CharSequence.associateBy(keySelector: (Char) -> K):
Map<K, Char> {\n    val capacity = mapCapacity(length).coerceAtLeast(16)\n    return
associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the
values provided by [valueTransform] and indexed by [keySelector] functions applied to characters of the given char
sequence.\n * \n * \n * If any two characters would have the same key returned by [keySelector] the last one gets
added to the map.\n * \n * \n * The returned map preserves the entry iteration order of the original char sequence.\n
* \n * \n * @sample samples.text.Strings.associateByWithValueTransform\n */\npublic inline fun <K, V>
CharSequence.associateBy(keySelector: (Char) ->
K, valueTransform: (Char) -> V): Map<K, V> {\n    val capacity = mapCapacity(length).coerceAtLeast(16)\n
return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function
applied to each character of the given char sequence\n * and value is the character itself.\n * \n * \n * If any two
characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * \n * @sample
samples.text.Strings.associateByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Char>>
CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {\n    for (element in this) {\n
destination.put(keySelector(element), element)\n    }\n    return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and
value is provided by the [valueTransform] function applied to characters of the given char sequence.\n * \n * \n * If
any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
\n * @sample samples.text.Strings.associateByToWithValueTransform\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K,
valueTransform: (Char) -> V): M {\n    for (element in this) {\n        destination.put(keySelector(element),
valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each character of the given char
sequence.\n * \n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n *
\n * @sample samples.text.Strings.associateTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>>
CharSequence.associateTo(destination: M, transform:
(Char) -> Pair<K, V>): M {\n    for (element in this) {\n        destination += transform(element)\n    }\n
return destination\n}\n\n/**\n * Returns a [Map] where keys are characters from the given char sequence and values are\n
* produced by the [valueSelector] function applied to each character.\n * \n * \n * If any two characters are equal,
the last one gets added to the map.\n * \n * \n * The returned map preserves the entry iteration order of the original
char sequence.\n * \n * \n * @sample samples.text.Strings.associateWith\n */\n\n@SinceKotlin("1.3")\npublic inline fun <V>

```

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CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n  val result = LinkedHashMap<Char,
V>(mapCapacity(length.coerceAtMost(128)).coerceAtLeast(16))\n  return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
character of the given char sequence,\n * where key is the character itself and value is provided
by the [valueSelector] function applied to that key.\n * \n * If any two characters are equal, the last one overwrites
the former value in the map.\n * \n * @sample samples.text.Strings.associateWithTo\n
*/\n@SinceKotlin("1.3")\npublic inline fun <V, M : MutableMap<in Char, in V>>
CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n/**\n * Appends all characters to
the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>>
CharSequence.toCollection(destination: C): C {\n  for (item in this) {\n    destination.add(item)\n  }\n  return
destination\n}\n\n/**\n * Returns a new [HashSet] of all characters.\n */\npublic fun CharSequence.toHashSet():
HashSet<Char> {\n  return toCollection(HashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n}\n\n/**\n *
Returns a [List] containing all characters.\n */\npublic
fun CharSequence.toList(): List<Char> {\n  return when (length) {\n    0 -> emptyList()\n    1 ->
listOf(this[0])\n    else -> this.toMutableList()\n  }\n}\n\n/**\n * Returns a new [MutableList] filled with all
characters of this char sequence.\n */\npublic fun CharSequence.toMutableList(): MutableList<Char> {\n  return
toCollection(ArrayList<Char>(length))\n}\n\n/**\n * Returns a [Set] of all characters.\n * \n * The returned set
preserves the element iteration order of the original char sequence.\n */\npublic fun CharSequence.toSet():
Set<Char> {\n  return when (length) {\n    0 -> emptySet()\n    1 -> setOf(this[0])\n    else ->
toCollection(LinkedHashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n  }\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each character of original char
sequence.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic
inline fun <R> CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n  return
flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of
[transform] function being invoked on each character\n * and its index in the original char sequence.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharSequence.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n  return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each character\n * and its index in the original char sequence, to the given
[destination].\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c
inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapIndexedTo(destination: C, transform: (index:
Int, Char) -> Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++,
element)\n    destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each character of original char sequence, to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapTo(destination: C,
transform: (Char) -> Iterable<R>): C {\n  for (element in this) {\n    val list = transform(element)\n
destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Groups characters of the original char sequence by
the key returned by the given [keySelector]
function\n * applied to each character and returns a map where each group key is associated with a list of
corresponding characters.\n * \n * The returned map preserves the entry iteration order of the keys produced from
the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic
inline fun <K> CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n  return

```



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groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each character of the original char sequence\n * by the key returned by the
given [keySelector] function applied to the character\n * and returns a map where each group key is associated with
a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\npublic inline fun <K, V> CharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V):
Map<K, List<V>> {\n    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n}\n\n/**\n * Groups characters of the original char sequence by the key returned by the given
[keySelector] function\n * applied to each character and puts to the [destination] map each group key associated
with a list of corresponding characters.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\npublic inline fun <K, M : MutableMap<in K,
MutableList<Char>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K): M {\n    for (element in
this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<Char>() }\n
list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function
applied to
each character of the original char sequence\n * by the key returned by the given [keySelector] function applied to
the character\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n *
\n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K,
valueTransform: (Char) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return
destination\n}\n\n/**\n * Creates a [Grouping] source from a char sequence to be used later with one of group-and-
fold operations\n * using the specified [keySelector] function to extract a key from each character.\n * \n * @sample
samples.collections.Grouping.groupingByEachCount\n
*\n@SinceKotlin("1.1")\npublic inline fun <K> CharSequence.groupingBy(crossinline keySelector: (Char) ->
K): Grouping<Char, K> {\n    return object : Grouping<Char, K> {\n        override fun sourceIterator():
Iterator<Char> = this@groupingBy.iterator()\n        override fun keyOf(element: Char): K = keySelector(element)\n
    }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each character
in the original char sequence.\n * \n * @sample samples.text.Strings.map\n
*\npublic inline fun <R>
CharSequence.map(transform: (Char) -> R): List<R> {\n    return mapTo(ArrayList<R>(length),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
character and its index in the original char sequence.\n * @param [transform] function that takes the index of a
character and the character itself\n * and returns the result of the transform applied to the character.\n
*\npublic inline
fun <R> CharSequence.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n    return
mapIndexedTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of
applying the given [transform] function\n * to each character and its index in the original char sequence.\n *
\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of
the transform applied to the character.\n
*\npublic inline fun <R : Any>
CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {\n    return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each
character and its index in the original char sequence\n * and appends only the non-null results to the given
[destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and
returns the result of the transform applied to the character.\n
*\npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination:
C, transform: (index: Int, Char) -> R?): C {\n    forEachIndexed { index, element -> transform(index, element)?.let {

```





```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) ->
Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxV = selector(this[0])\n    for (i
in 1..lastIndex) {\n        val v = selector(this[i])\n        maxV = maxOf(maxV, v)\n    }\n    return
maxV\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> CharSequence.maxOf(selector: (Char) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxV = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (maxV < v) {\n            maxV = v\n        }\n    }\n    return maxV\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each character in the char
sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector:
(Char) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxV = selector(this[0])\n    for (i
in 1..lastIndex) {\n        val v = selector(this[i])\n        maxV = maxOf(maxV, v)\n    }\n    return
maxV\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector:
(Char) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxV = selector(this[0])\n    for (i
in 1..lastIndex) {\n        val v = selector(this[i])\n        maxV = maxOf(maxV, v)\n    }\n    return
maxV\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each character in the char sequence or `null` if there are
no characters.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.maxOfOrNull(selector: (Char) -> R): R? {\n    if (isEmpty()) return null\n    var maxV =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxV < v) {\n
            maxV = v\n        }\n    }\n    return maxV\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each character in the char sequence.\n
*\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.maxOfWith(comparator:
Comparator<in R>, selector: (Char)
-> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxV = selector(this[0])\n    for (i
in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxV, v) < 0) {\n           
maxV = v\n        }\n    }\n    return maxV\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each character in the char sequence or
`null` if there are no characters.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharSequence.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n    if (isEmpty())
return null\n    var maxV = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n
        if (comparator.compare(maxV, v) < 0) {\n            maxV = v\n        }\n    }\n

```



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minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * @throws
NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.minOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no
characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.minOrNull(selector: (Char) -> Double): Double? {\n if (isEmpty()) return null\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n
}\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n
* applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOrNull(selector:
(Char) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex)
{\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n
* Returns the smallest value among all values produced by [selector] function\n * applied to each character in the
char sequence or `null` if there are no characters.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.minOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each character in the char sequence.\n
* \n * @throws NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharSequence.minOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {\n if
(isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n
return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each character in the char sequence or `null` if there are no
characters.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharSequence.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest character or `null` if there are no
characters.\n *\n@SinceKotlin("1.4")\npublic fun CharSequence.minOrNull(): Char? {\n if (isEmpty()) return
null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return
min\n}\n\n/**\n * Returns the first character having the smallest value according to the provided [comparator].\n
* \n * @throws NoSuchElementException if the char sequence is empty.\n

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*1.7 kotlin.jvm.JvmName("minWithOrThrow")Suppress("CONFLICTING_OVERLOADS")
public fun CharSequence.minWith(comparator: Comparator<in Char>): Char {
    if (isEmpty()) throw NoSuchElementException()
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}
/** Returns the first character having the smallest value according to the provided [comparator] or `null` if there are no characters.
*/
*1.4 public fun CharSequence.minWithOrNull(comparator: Comparator<in Char>): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}
/** Returns `true` if the char sequence has no characters.
*/
* @sample samples.collections.Collections.Aggregates.none
*/
* public fun CharSequence.none(): Boolean {
    return isEmpty()
}
/** Returns `true` if no characters match the given [predicate].
*/
* @sample samples.collections.Collections.Aggregates.noneWithPredicate
*/
* public inline fun CharSequence.none(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}
/** Performs the given [action] on each character and returns the char sequence itself afterwards.
*/
*1.1 public inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S {
    return apply { for (element in this) action(element) }
}
/** Performs the given [action] on each character, providing sequential index with the character, and returns the char sequence itself afterwards.
*/
* @param [action] function that takes the index of a character and the character itself and performs the action on the character.
*/
*1.4 public inline fun <S : CharSequence> S.onEachIndexed(action: (index: Int, Char) -> Unit): S {
    return apply { forEachIndexed(action) }
}
/** Accumulates value starting with the first character and applying [operation] from left to right to current accumulator value and each character.
*/
* Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
*/
* @param [operation] function that takes current accumulator value and a character and calculates the next accumulator value.
*/
* @sample samples.collections.Collections.Aggregates.reduce
*/
* public inline fun CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char {
    if (isEmpty()) throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
/** Accumulates value starting with the first character and applying [operation] from left to right to current accumulator value and each character with its index in the original char sequence.
*/
* Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
*/
* @param [operation] function that takes the index of a character, current accumulator value and the character itself and calculates the next accumulator value.
*/
* @sample samples.collections.Collections.Aggregates.reduceIndexed
*/
* public inline fun CharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {
    if (isEmpty()) throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
/** Accumulates value starting with the first character and applying [operation] from left to right to current accumulator value and each character with its index in the original char sequence.
*/
* Returns `null` if the char sequence is empty.
*/
* @param [operation] function that takes the index of a character, current accumulator value and the character itself and calculates the next accumulator value.
*/
* @sample samples.collections.Collections.Aggregates.reduceOrNull
*/
*1.4 public inline fun CharSequence.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? {
    if (isEmpty()) return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
/** Accumulates value starting with the first character and applying [operation] from left to right to current accumulator value and each character.
*/
* Returns `null` if the char sequence is empty.
*/
* @param [operation] function that takes current accumulator value and a character and calculates the next

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accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n  if (isEmpty())\n    return null\n
var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n
  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation]
from right to left\n * to each character and current accumulator value.\n * \n * Throws an exception if this char
sequence is empty. If the char sequence can be empty in an expected way,\n * please use [reduceRightOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes a character and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
CharSequence.reduceRight(operation:
(Char, acc: Char) -> Char): Char {\n  var index = lastIndex\n  if (index < 0) throw
UnsupportedOperationException("Empty char sequence can't be reduced.")\n  var accumulator = get(index--)\n
while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from right to
left\n * to each character with its index in the original char sequence and current accumulator value.\n * \n * Throws
an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of a character, the character itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic
inline
fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n  var index =
lastIndex\n  if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")\n
var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last
character and applying [operation] from right to left\n * to each character with its index in the original char sequence
and current accumulator value.\n * \n * Returns `null` if the char sequence is empty.\n * \n * @param [operation]
function that takes the index of a character, the character itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun CharSequence.reduceRightIndexedOrNull(operation:
(index: Int, Char, acc: Char) -> Char): Char? {\n  var index = lastIndex\n  if (index < 0) return null\n  var
accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last
character and applying [operation] from right to left\n * to each character and current accumulator value.\n * \n *
Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes a character and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n  var index = lastIndex\n  if
(index < 0) return null\n  var accumulator = get(index--)\n  while (index
>= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each character and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and a character, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\npublic inline fun <R> CharSequence.runningFold(initial: R, operation: (acc: R, Char) ->
R): List<R> {\n  if (isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(length + 1).apply { add(initial)

```



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}\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator,
element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each character, its index in the
original char sequence and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value
passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting
list.\n * \n * @param [operation] function that takes the index of a character, current accumulator value\n * and the
character itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n *^\n@SinceKotlin("1.4")\npublic inline fun <R>
CharSequence.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n if
(isEmpty()) return listOf(initial)\n val result = ArrayList<R>(length + 1).apply { add(initial) }\n
var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator,
this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each character and current
accumulator value that starts with the first character of this char sequence.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and a character, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*^\n@SinceKotlin("1.4")\npublic inline fun CharSequence.runningReduce(operation: (acc: Char, Char) -> Char):
List<Char> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result =
ArrayList<Char>(length).apply
{ add(accumulator) }\n for (index in 1 until length) {\n accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each character, its index in the original char
sequence and current accumulator value that starts with the first character of this char sequence.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of a character, current accumulator value\n *
and the character itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n *^\n@SinceKotlin("1.4")\npublic inline fun
CharSequence.runningReduceIndexed(operation: (index: Int, acc: Char, Char) ->
Char): List<Char> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result =
ArrayList<Char>(length).apply { add(accumulator) }\n for (index in 1 until length) {\n accumulator =
operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each character and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and a character, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*^\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>
CharSequence.scan(initial:
R, operation: (acc: R, Char) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each character,
its index in the original char sequence and current accumulator value that starts with [initial] value.\n * \n * Note
that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous
value in resulting list.\n * \n * @param [operation] function that takes the index of a character, current accumulator
value\n * and the character itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*^\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>
CharSequence.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n return

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runningFoldIndexed(initial, operation)\n\n\n * Returns
the sum of all values produced by [selector] function applied to each character in the char sequence.\n
*\n@Deprecated("Use sumOf instead."),
ReplaceWith("this.sumOf(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharSequence.sumBy(selector: (Char) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n\n * Returns the sum of all values produced by [selector] function
applied to each character in the char sequence.\n *\n@Deprecated("Use sumOf instead."),
ReplaceWith("this.sumOf(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharSequence.sumByDouble(selector: (Char) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic
inline fun CharSequence.sumOf(selector: (Char) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n\n * Returns the sum of all values
produced by [selector] function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n\n * Returns the sum of all values produced by [selector]
function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n
        sum += selector(element)\n    }\n    return sum\n}\n\n\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> UInt): UInt {\n
    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n\n * Returns the sum of all values produced
by [selector] function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> ULong):
ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n
return sum\n}\n\n\n * Splits this char sequence into a list of strings each not exceeding the given [size].\n * \n *
The last string in the resulting list may have fewer characters than the given [size].\n * \n * @param size the number
of elements to take in each string, must be positive and can be greater than the number of elements in this char
sequence.\n * \n * @sample samples.text.Strings.chunked\n *\n@SinceKotlin("1.2")\npublic fun
CharSequence.chunked(size: Int): List<String> {\n
    return windowed(size, size, partialWindows = true)\n}\n\n\n * Splits this char sequence into several char
sequences each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n *
@return list of results of the [transform] applied to an each char sequence.\n * \n * Note that the char sequence
passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or
allow it to escape in some way, unless you made a snapshot of it.\n * The last char sequence may have fewer
characters than the given [size].\n * \n * @param size the number of elements to take in each char sequence, must be
positive and can be greater than the number of elements in this char sequence.\n * \n * @sample

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samples.text.Strings.chunkedTransform\n *\n@SinceKotlin("1.2")\npublic fun <R> CharSequence.chunked(size:
Int, transform: (CharSequence) -> R): List<R> {\n    return windowed(size, size, partialWindows = true, transform
= transform)\n}\n\n/**\n * Splits this char sequence into a sequence of strings each not exceeding the given [size].\n
*\n * The last string in the resulting sequence may have fewer characters than the given [size].\n * \n * @param size
the number of elements to take in each string, must be positive and can be greater than the number of elements in
this char sequence.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n
*\n@SinceKotlin("1.2")\npublic fun CharSequence.chunkedSequence(size: Int): Sequence<String> {\n    return
chunkedSequence(size) { it.toString() }\n}\n\n/**\n * Splits this char sequence into several char sequences each not
exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return sequence of
results of the [transform] applied to an each char sequence.\n * \n * Note that the char sequence passed to the
[transform] function is ephemeral and is valid only inside that function.\n * You should not
store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last char sequence may have
fewer characters than the given [size].\n * \n * @param size the number of elements to take in each char sequence,
must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample
samples.text.Strings.chunkedTransformToSequence\n *\n@SinceKotlin("1.2")\npublic fun <R>
CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {\n    return
windowedSequence(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Splits the original char
sequence into pair of char sequences,\n * where *first* char sequence contains characters for which [predicate]
yielded `true`,\n * while *second* char sequence contains characters for which [predicate] yielded `false`.\n * \n *
@sample samples.text.Strings.partition\n *\npublic inline fun CharSequence.partition(predicate: (Char) ->
Boolean): Pair<CharSequence,
CharSequence> {\n    val first = StringBuilder()\n    val second = StringBuilder()\n    for (element in this) {\n        if
(predicate(element)) {\n            first.append(element)\n        } else {\n            second.append(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Splits the original string into pair of strings,\n * where *first* string
contains characters for which [predicate] yielded `true`,\n * while *second* string contains characters for which
[predicate] yielded `false`.\n * \n * @sample samples.text.Strings.partition\n *\npublic inline fun
String.partition(predicate: (Char) -> Boolean): Pair<String, String> {\n    val first = StringBuilder()\n    val second =
StringBuilder()\n    for (element in this) {\n        if (predicate(element)) {\n            first.append(element)\n        } else
{\n            second.append(element)\n        }\n    }\n    return Pair(first.toString(), second.toString())\n}\n\n/**\n *
Returns a list of snapshots of
the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is
a string.\n * \n * Several last strings may have fewer characters than the given [size].\n * \n * Both [size] and [step]
must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number
of elements to take in each window\n * @param step the number of elements to move the window forward by on an
each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if
any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.takeWindows\n *\n@SinceKotlin("1.2")\npublic fun
CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {\n    return
windowed(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a list of results of applying the given
[transform]
function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this
char sequence with the given [step].\n * \n * Note that the char sequence passed to the [transform] function is
ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way,
unless you made a snapshot of it.\n * Several last char sequences may have fewer characters than the given [size].\n
*\n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n
*\n * @param size the number of elements to take in each window\n * @param step the number of elements to move
the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep
partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n *

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@sample samples.collections.Sequences.Transformations.averageWindows\n *\n@SinceKotlin("1.2")\npublic
fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform:
(CharSequence) -> R): List<R> {\n  checkWindowSizeStep(size, step)\n  val thisSize = this.length\n  val
resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n  val result = ArrayList<R>(resultCapacity)\n
var index = 0\n  while (index in 0 until thisSize) {\n    val end = index + size\n    val coercedEnd = if (end < 0
|| end > thisSize) { if (partialWindows) thisSize else break } else end\n    result.add(transform(subSequence(index,
coercedEnd)))\n    index += step\n  }\n  return result\n}\n\n/**\n * Returns a sequence of snapshots of the
window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a
string.\n * \n * Several last strings may have fewer characters than the given [size].\n * \n * Both [size] and [step]
must be positive and can be greater than the number of
elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step
the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows
controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial
windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n
*\n@SinceKotlin("1.2")\npublic fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows:
Boolean = false): Sequence<String> {\n  return windowedSequence(size, step, partialWindows) { it.toString()
}\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each char
sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given
[step].\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside
that
function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n *
Several last char sequences may have fewer characters than the given [size].\n * \n * Both [size] and [step] must be
positive and can be greater than the number of elements in this char sequence.\n * @param size the number of
elements to take in each window\n * @param step the number of elements to move the window forward by on an
each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if
any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.averageWindows\n *\n@SinceKotlin("1.2")\npublic fun <R>
CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform:
(CharSequence) -> R): Sequence<R> {\n  checkWindowSizeStep(size, step)\n  val windows = (if
(partialWindows) indices else 0 until length - size
+ 1) step step\n  return windows.asSequence().map { index ->\n    val end = index + size\n    val coercedEnd
= if (end < 0 || end > length) length else end\n    transform(subSequence(index, coercedEnd))\n  }\n}\n\n/**\n *
Returns a list of pairs built from the characters of `this` and the [other] char sequences with the same index\n * The
returned list has length of the shortest char sequence.\n * \n * @sample samples.text.Strings.zip\n *\npublic infix
fun CharSequence.zip(other: CharSequence): List<Pair<Char, Char>> {\n  return zip(other) { c1, c2 -> c1 to c2
}\n}\n\n/**\n * Returns a list of values built from the characters of `this` and the [other] char sequences with the
same index\n * using the provided [transform] function applied to each pair of characters.\n * The returned list has
length of the shortest char sequence.\n * \n * @sample samples.text.Strings.zipWithTransform\n *\npublic inline
fun <V> CharSequence.zip(other: CharSequence, transform: (a: Char,
b: Char) -> V): List<V> {\n  val length = minOf(this.length, other.length)\n  val list = ArrayList<V>(length)\n
for (i in 0 until length) {\n    list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of
pairs of each two adjacent characters in this char sequence.\n * \n * The returned list is empty if this char sequence
contains less than two characters.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n
*\n@SinceKotlin("1.2")\npublic fun CharSequence.zipWithNext(): List<Pair<Char, Char>> {\n  return
zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform]
function\n * to an each pair of two adjacent characters in this char sequence.\n * \n * The returned list is empty if
this char sequence contains less than two characters.\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n *\n@SinceKotlin("1.2")\npublic

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inline fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R): List<R> {
    val size = length - 1
    if (size < 1) return emptyList()
    val result = ArrayList<R>(size)
    for (index in 0 until size) {
        result.add(transform(this[index], this[index + 1]))
    }
    return result
}

// Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.
public fun CharSequence.asIterable(): Iterable<Char> {
    if (this is String && isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

// Creates a [Sequence] instance that wraps the original char sequence returning its characters when being iterated.
public fun CharSequence.asSequence(): Sequence<Char> {
    if (this is String && isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

// Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.
// Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")
package kotlin.text
import kotlin.contracts.contract
import kotlin.jvm.JvmName

// Returns a copy of this string converted to upper case using the rules of the default locale.
@Deprecated("Use uppercase() instead.", ReplaceWith("uppercase()"))
@DeprecatedSinceKotlin(warningSince = "1.5")
public expect fun String.toUpperCase(): String

// Returns a copy of this string converted to upper case using Unicode mapping rules of the invariant locale.
// This function supports one-to-many and many-to-one character mapping, thus the length of the returned string can be different from the length of the original string.
@sample samples.text.Strings.toUpperCase()

@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun String.toUpperCase(): String

// Returns a copy of this string converted to lower case using the rules of the default locale.
@Deprecated("Use lowercase() instead.", ReplaceWith("lowercase()"))
@DeprecatedSinceKotlin(warningSince = "1.5")
public expect fun String.toLowerCase(): String

// Returns a copy of this string converted to lower case using Unicode mapping rules of the invariant locale.
// This function supports one-to-many and many-to-one character mapping, thus the length of the returned string can be different from the length of the original string.
@sample samples.text.Strings.toLowerCase()

@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun String.toLowerCase(): String

// Returns a copy of this string having its first letter titlecased using the rules of the default locale, or the original string if it's empty or already starts with a title case letter.
// The title case of a character is usually the same as its upper case with several exceptions.
// The particular list of characters with the special title case form depends on the underlying platform.
@sample samples.text.Strings.capitalize()

@Deprecated("Use replaceFirstChar instead.", ReplaceWith("replaceFirstChar { if (it.isLowerCase()) it.titlecase() else it.toString() }"))
@DeprecatedSinceKotlin(warningSince = "1.5")
public expect fun String.capitalize(): String

// Returns a copy of this string having its first letter lowercased using the rules of the default locale, or the original string if it's empty or already starts with a lower case letter.
@sample samples.text.Strings.decapitalize()

@Deprecated("Use replaceFirstChar instead.", ReplaceWith("replaceFirstChar { it.lowercase() }"))
@DeprecatedSinceKotlin(warningSince = "1.5")
public expect fun String.decapitalize(): String

// Returns a sub sequence of this char sequence having leading and trailing characters matching the [predicate] removed.
public inline fun CharSequence.trim(predicate: (Char) -> Boolean): CharSequence {
    var startIndex = 0
    var endIndex = length - 1
    var startFound = false
    while (startIndex <= endIndex) {
        val index = if (!startFound) startIndex else endIndex
        val match = predicate(this[index])
        if (!startFound) {
            if (!match) startFound = true
            else startIndex += 1
        } else {
            if (!match) break
            else endIndex -= 1
        }
    }
    return subSequence(startIndex, endIndex + 1)
}

// Returns a string having leading and trailing characters matching the [predicate] removed.
public inline fun String.trim(predicate: (Char) ->

```

```

Boolean): String =\n (this as CharSequence).trim(predicate).toString()\n\n/**\n * Returns a sub sequence of this
char sequence having leading characters
matching the [predicate] removed.\n */\npublic inline fun CharSequence.trimStart(predicate: (Char) -> Boolean):
CharSequence {\n for (index in this.indices)\n if (!predicate(this[index]))\n return subSequence(index,
length)\n return ""\n}\n\n/**\n * Returns a string having leading characters matching the [predicate]
removed.\n */\npublic inline fun String.trimStart(predicate: (Char) -> Boolean): String =\n (this as
CharSequence).trimStart(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having
trailing characters matching the [predicate] removed.\n */\npublic inline fun CharSequence.trimEnd(predicate:
(Char) -> Boolean): CharSequence {\n for (index in this.indices.reversed())\n if (!predicate(this[index]))\n
return subSequence(0, index + 1)\n\n return ""\n}\n\n/**\n * Returns a string having trailing characters
matching the [predicate] removed.\n */\npublic inline fun String.trimEnd(predicate:
(Char) -> Boolean): String =\n (this as CharSequence).trimEnd(predicate).toString()\n\n/**\n * Returns a sub
sequence of this char sequence having leading and trailing characters from the [chars] array removed.\n */\npublic
fun CharSequence.trim(vararg chars: Char): CharSequence = trim { it in chars }\n\n/**\n * Returns a string having
leading and trailing characters from the [chars] array removed.\n */\npublic fun String.trim(vararg chars: Char):
String = trim { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having leading characters from
the [chars] array removed.\n */\npublic fun CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart {
it in chars }\n\n/**\n * Returns a string having leading characters from the [chars] array removed.\n */\npublic fun
String.trimStart(vararg chars: Char): String = trimStart { it in chars }\n\n/**\n * Returns a sub sequence of this char
sequence having trailing characters from the [chars] array removed.\n */\npublic
fun CharSequence.trimEnd(vararg chars: Char): CharSequence = trimEnd { it in chars }\n\n/**\n * Returns a string
having trailing characters from the [chars] array removed.\n */\npublic fun String.trimEnd(vararg chars: Char):
String = trimEnd { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having leading and trailing
whitespace removed.\n */\npublic fun CharSequence.trim(): CharSequence = trim(Char::isWhitespace)\n\n/**\n *
Returns a string having leading and trailing whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun String.trim(): String = (this as CharSequence).trim().toString()\n\n/**\n * Returns a sub sequence of this char
sequence having leading whitespace removed.\n */\npublic fun CharSequence.trimStart(): CharSequence =
trimStart(Char::isWhitespace)\n\n/**\n * Returns a string having leading whitespace removed.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun String.trimStart(): String = (this as
CharSequence).trimStart().toString()\n\n/**\n * Returns a sub sequence of this char sequence having trailing whitespace
removed.\n */\npublic fun
CharSequence.trimEnd(): CharSequence = trimEnd(Char::isWhitespace)\n\n/**\n * Returns a string having trailing
whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trimEnd(): String = (this as
CharSequence).trimEnd().toString()\n\n/**\n * Returns a char sequence with content of this char sequence padded at
the beginning\n * to the specified [length] with the specified character or space.\n */\n * @param length the desired
string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified.
Space is used by default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char
sequence prepended with [padChar] as many times\n * as are necessary to reach that length.\n */\n * @sample
samples.text.Strings.padStart\n */\npublic fun CharSequence.padStart(length: Int, padChar:
Char = ' '): CharSequence {\n if (length < 0)\n throw IllegalArgumentException("Desired length $length is
less than zero.")\n if (length <= this.length)\n return this.subSequence(0, this.length)\n\n val sb =
StringBuilder(length)\n for (i in 1..(length - this.length))\n sb.append(padChar)\n sb.append(this)\n return
sb\n}\n\n/**\n * Pads the string to the specified [length] at the beginning with the specified character or space.\n
*/\n * @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less
than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length]
consisting of `this` string prepended with [padChar] as many times\n * as are necessary to reach that length.\n
*/\n * @sample samples.text.Strings.padStart\n */\npublic fun String.padStart(length: Int, padChar: Char = ' '): String =\n
(this as CharSequence).padStart(length, padChar).toString()\n\n

```

```

* Returns a char sequence with content of this char sequence padded at the end
* to the specified [length] with the
specified character or space.
*n * @param length the desired string length.
*n * @param padChar the character to
pad string with, if it has length less than the [length] specified. Space is used by default.
*n * @return Returns a char
sequence of length at least [length] consisting of `this` char sequence appended with [padChar] as many times
*n * as are necessary to reach that length.
*n * @sample samples.text.Strings.padEnd
*n */
public fun
CharSequence.padEnd(length: Int, padChar: Char = ' '): CharSequence {
    if (length < 0)
        throw
IllegalArgumentExceptiOn("Desired length $length is less than zero.")
    if (length <= this.length)
        return
this.subSequence(0, this.length)
    val sb = StringBuilder(length)
    sb.append(this)
    for (i in 1..(length -
this.length))
        sb.append(padChar)
    return sb
}
*n */
*n * Pads
the string to the specified [length] at the end with the specified character or space.
*n * @param length the
desired string length.
*n * @param padChar the character to pad string with, if it has length less than the [length]
specified. Space is used by default.
*n * @return Returns a string of length at least [length] consisting of `this` string
appended with [padChar] as many times
*n * as are necessary to reach that length.
*n * @sample
samples.text.Strings.padEnd
*n */
public fun String.padEnd(length: Int, padChar: Char = ' '): String =
(this as
CharSequence).padEnd(length, padChar).toString()
*n */
*n * Returns `true` if this nullable char sequence is either
`null` or empty.
*n * @sample samples.text.Strings.stringIsNullOrEmpty
*n */
*n */
@kotlin.internal.InlineOnly
public inline fun CharSequence?.isNullOrEmpty(): Boolean {
    contract {
        returns(false) implies (this@isNullOrEmpty != null)
    }
    return this == null || this.length == 0
}
*n */
*n */
Returns `true`
if this char sequence is empty (contains no characters).
*n * @sample samples.text.Strings.stringIsEmpty
*n */
*n */
@kotlin.internal.InlineOnly
public inline fun CharSequence.isEmpty(): Boolean = length == 0
*n */
*n */
Returns `true` if this char sequence is not empty.
*n * @sample samples.text.Strings.stringIsNotEmpty
*n */
*n */
@kotlin.internal.InlineOnly
public inline fun CharSequence.isNotEmpty(): Boolean = length > 0
*n */
//
implemented differently in JVM and JS
//
public fun String.isBlank(): Boolean = length() == 0 || all {
it.isWhitespace()
}
*n */
*n */
Returns `true` if this char sequence is not empty and contains some characters
except of whitespace characters.
*n * @sample samples.text.Strings.stringIsNotBlank
*n */
*n */
@kotlin.internal.InlineOnly
public inline fun CharSequence.isNotBlank(): Boolean = !isBlank()
*n */
*n */
Returns `true` if this nullable char sequence is either `null` or empty or consists solely of whitespace characters.
*n * @sample samples.text.Strings.stringIsNullOrBlank
*n */
*n */
@kotlin.internal.InlineOnly
public inline fun CharSequence?.isNullOrBlank(): Boolean {
    contract {
        returns(false) implies (this@isNullOrBlank != null)
    }
    return this == null || this.isBlank()
}
*n */
*n */
Iterator for characters of the given char sequence.
*n */
public operator fun CharSequence.iterator(): CharIterator =
object : CharIterator() {
    private var index = 0
    public override fun nextChar(): Char = get(index++)
    public override fun hasNext(): Boolean = index < length
}
*n */
*n */
Returns the string if it is not `null`, or the empty
string otherwise.
*n */
@kotlin.internal.InlineOnly
public inline fun String?.orEmpty(): String = this ?: ""
*n */
*n */
Returns this char sequence if it's not empty
*n * or the result of calling [defaultValue] function if the char sequence
is empty.
*n * @sample samples.text.Strings.stringIfEmpty
*n */
*n */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <C, R>
C.ifEmpty(defaultValue: () -> R): R where C : CharSequence, C : R =
if (isEmpty()) defaultValue() else
this
*n */
*n */
Returns this char sequence if it is not empty and doesn't consist solely of whitespace characters,
*n * or the result of calling [defaultValue] function otherwise.
*n * @sample samples.text.Strings.stringIfBlank
*n */
*n */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <C, R> C.ifBlank(defaultValue: () -> R):
R where C : CharSequence, C : R =
if (isBlank()) defaultValue() else this
*n */
*n */
Returns the range of valid
character indices for this char sequence.
*n */
public val CharSequence.indices: IntRange
get() = 0..length -
1
*n */
*n */
Returns the index of the last character in the char sequence or -1 if it is empty.
*n */
public val
CharSequence.lastIndex: Int
get() = this.length - 1
*n */
*n */
Returns `true` if this CharSequence has Unicode
surrogate pair at the specified [index].
*n */
public fun CharSequence.hasSurrogatePairAt(index:

```

```

Int): Boolean {
    return index in 0..length - 2 && this[index].isHighSurrogate() && this[index + 1].isLowSurrogate()
}

String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)

CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive + 1)

String.subSequence(start: Int, end: Int): CharSequence = subSequence(start, end)

CharSequence.substring(startIndex: Int, endIndex: Int = length): String = subSequence(startIndex, endIndex).toString()

CharSequence.substring(range: IntRange): String = subSequence(range.start, range.endInclusive + 1).toString()

String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(0, index)
}

String.substringBefore(delimiter: String, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(0, index)
}

String.substringAfter(delimiter: Char, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + 1, length)
}

String.substringAfter(delimiter: String, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)
}

String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(0, index)
}

String.substringBeforeLast(delimiter: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(0, index)
}

String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + 1, length)
}

String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + 1, length)
}

```



```

String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {
    val index =
    lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + delimiter.length,
    length)
}

String.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence):
CharSequence {
    if (endIndex < startIndex)
        throw IndexOutOfBoundsException("End index ($endIndex)
    is less than start index ($startIndex).")
    val sb = StringBuilder()
    sb.appendRange(this, 0, startIndex)
    sb.append(replacement)
    sb.appendRange(this, endIndex, length)
    return sb
}

String.replaceRange(startIndex: Int, endIndex: Int,
replacement: CharSequence): String =
    (this as CharSequence).replaceRange(startIndex, endIndex,
replacement).toString()

String.replaceRange(range: IntRange, replacement:
CharSequence): CharSequence =
    replaceRange(range.start, range.endInclusive + 1, replacement)

String.replaceRange(range: IntRange, replacement: CharSequence): String =
    (this as
CharSequence).replaceRange(range, replacement).toString()

CharSequence.removeRange(startIndex: Int, endIndex: Int): CharSequence {
    if (endIndex < startIndex)
        throw IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")
    if (endIndex == startIndex)
        return this.subSequence(0, length)
    val sb = StringBuilder(length - (endIndex -
startIndex))
    sb.appendRange(this, 0,
startIndex)
    sb.appendRange(this, endIndex, length)
    return sb
}

CharSequence.removeRange(startIndex: Int, endIndex: Int): String =
    (this as CharSequence).removeRange(startIndex, endIndex).toString()

CharSequence.removeRange(range: IntRange): CharSequence =
    removeRange(range.start, range.endInclusive + 1)

String.removeRange(range: IntRange): String =
    (this as
CharSequence).removeRange(range).toString()

CharSequence.removePrefix(prefix: CharSequence): CharSequence {
    if (startsWith(prefix))
        return subSequence(prefix.length, length)
    return subSequence(0,
length)
}

String.removePrefix(prefix: CharSequence): String {
    if (startsWith(prefix))
        return substring(prefix.length)
    return this
}

CharSequence.removeSuffix(suffix: CharSequence):
CharSequence {
    if (endsWith(suffix))
        return subSequence(0, length - suffix.length)
    return
}

```

```

subSequence(0, length)\n\n/**\n * If this string ends with the given [suffix], returns a copy of this string\n * with the suffix removed. Otherwise, returns this string.\n */\npublic fun String.removeSuffix(suffix: CharSequence):  
String {\n    if (endsWith(suffix)) {\n        return substring(0, length - suffix.length)\n    }\n    return this\n}\n\n/**\n * When this char sequence starts with the given [prefix] and ends with the given [suffix],\n * returns a new char sequence having both the given [prefix] and [suffix] removed.\n * Otherwise returns a new char sequence with the same characters.\n */\npublic fun CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence):  
CharSequence {\n    if ((length >= prefix.length + suffix.length) && startsWith(prefix)  
&& endsWith(suffix)) {\n        return subSequence(prefix.length, length - suffix.length)\n    }\n    return  
subSequence(0, length)\n}\n\n/**\n * Removes from a string both the given [prefix] and [suffix] if and only if\n * it starts with the [prefix] and ends with the [suffix].\n * Otherwise returns this string unchanged.\n */\npublic fun  
String.removeSurrounding(prefix: CharSequence, suffix: CharSequence): String {\n    if ((length >= prefix.length +  
suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n        return substring(prefix.length, length -  
suffix.length)\n    }\n    return this\n}\n\n/**\n * When this char sequence starts with and ends with the given  
[delimiter],\n * returns a new char sequence having this [delimiter] removed both from the start and end.\n *  
Otherwise returns a new char sequence with the same characters.\n */\npublic fun  
CharSequence.removeSurrounding(delimiter: CharSequence): CharSequence = removeSurrounding(delimiter,  
delimiter)\n\n/**\n * Removes the given [delimiter] string from both the start and the end of this string\n * if and only if it starts with and ends with the [delimiter].\n * Otherwise returns this string unchanged.\n */\npublic fun  
String.removeSurrounding(delimiter: CharSequence): String = removeSurrounding(delimiter, delimiter)\n\n/**\n * Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic  
fun String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else replaceRange(0, index,  
replacement)\n}\n\n/**\n * Replace part of string before the first occurrence of given delimiter with the  
[replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue]  
which defaults to the original string.\n */\npublic fun String.replaceBefore(delimiter: String, replacement: String,  
missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1)  
missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/**\n * Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfter(delimiter: Char,  
replacement: String, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/**\n * Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults  
to the original string.\n */\npublic fun String.replaceAfter(delimiter: String, replacement: String,  
missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1)  
missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n}\n\n/**\n * Replace part of string after the last occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun  
String.replaceAfterLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else replaceRange(index +  
delimiter.length, length, replacement)\n}\n\n/**\n * Replace part of string after the last occurrence of given  
delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns  
[missingDelimiterValue]  
which defaults to the original string.\n */\npublic fun String.replaceAfterLast(delimiter: Char, replacement: String,  
missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1)  
missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/**\n * Replace part of string

```

before the last occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/\*\*\n \* Replace part of string before the last occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun String.replaceBeforeLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n// public fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific\n// public fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific\n\n/\*\*\n \* Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression\n \* with the given [replacement].\n \* The [replacement] can consist of any combination of literal text and \$-substitutions. To treat the replacement string\n \* literally escape it with the [kotlin.text.Regex.Companion.escapeReplacement] method.\n \*/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, replacement: String): String = regex.replace(this, replacement)\n\n/\*\*\n \* Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression\n \* with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a\n \* replacement for that match.\n \*/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, noinline transform: (MatchResult) -> CharSequence): String =\n regex.replace(this, transform)\n\n/\*\*\n \* Replaces the first occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.\n \*/\n \* @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for details.\n \*/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replaceFirst(regex: Regex, replacement: String): String = regex.replaceFirst(this, replacement)\n\n/\*\*\n \* Returns a copy of this string having its first character replaced with the result of the specified [transform],\n \* or the original string if it's empty.\n \*/\n \* @param transform function that takes the first character and returns the result of the transform applied to the character.\n \*/\n \* @sample samples.text.Strings.replaceFirstChar\n \*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@JvmName("\replaceFirstCharWithChar")\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceFirstChar(transform: (Char) -> Char): String {\n return if (isEmpty()) transform(this[0]) + substring(1) else this\n}\n\n/\*\*\n \* Returns a copy of this string having its first character replaced with the result of the specified [transform],\n \* or the original string if it's empty.\n \*/\n \* @param transform function that takes the first character and returns the result of the transform applied to the character.\n \*/\n \* @sample samples.text.Strings.replaceFirstChar\n \*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@JvmName("\replaceFirstCharWithCharSequence")\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceFirstChar(transform: (Char) -> CharSequence): String {\n return if (isEmpty()) transform(this[0]).toString() + substring(1) else this\n}\n\n/\*\*\n \* Returns `true` if this char sequence matches the given regular expression.\n \*/\n@kotlin.internal.InlineOnly\npublic inline infix fun CharSequence.matches(regex: Regex): Boolean = regex.matches(this)\n\n/\*\*\n \* Implementation of [regionMatches] for CharSequences.\n \* Invoked when it's already known that arguments are not Strings, so that no additional type checks are performed.\n \*/\n@kotlin.internal\nfun CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean): Boolean {\n if ((otherOffset < 0) || (thisOffset < 0) || (thisOffset > this.length - length) || (otherOffset > other.length - length)) {\n return false\n }\n for (index in 0 until length) {\n if (!this[thisOffset + index].equals(other[otherOffset + index], ignoreCase))\n return false\n }\n return true\n}\n\n/\*\*\n \* Returns `true` if this char sequence starts with the specified character.\n \*/\n@kotlin.internal\npublic fun CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n this.length > 0 &&

```

this[0].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence ends with the specified character.\n
*/\npublic fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n    this.length > 0 &&
this[lastIndex].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence starts with the specified
prefix.\n
*/\npublic fun CharSequence.startsWith(prefix:
    CharSequence, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase && this is String && prefix is
String)\n        return this.startsWith(prefix)\n    else\n        return regionMatchesImpl(0, prefix, 0, prefix.length,
ignoreCase)\n}\n\n/**\n * Returns `true` if a substring of this char sequence starting at the specified offset
[startIndex] starts with the specified prefix.\n
*/\npublic fun CharSequence.startsWith(prefix: CharSequence,
    startIndex: Int, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase && this is String && prefix is String)\n        return this.startsWith(prefix, startIndex)\n    else\n        return regionMatchesImpl(startIndex, prefix, 0,
prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if this char sequence ends with the specified suffix.\n
*/\npublic fun CharSequence.endsWith(suffix: CharSequence, ignoreCase: Boolean = false): Boolean {\n    if
(ignoreCase && this is String && suffix is String)\n        return this.endsWith(suffix)\n    else\n        return regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length, ignoreCase)\n}\n\n// common
prefix and suffix\n\n/**\n * Returns the longest string `prefix` such that this char sequence and [other] char sequence
both start with this prefix,\n
* taking care not to split surrogate pairs.\n
* If this and [other] have no common prefix,
returns the empty string.\n
* @param ignoreCase `true` to ignore character case when matching a character. By
default `false`.\n
* @sample samples.text.Strings.commonPrefixWith\n
*/\npublic fun
CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n    val
shortestLength = minOf(this.length, other.length)\n    var i = 0\n    while (i < shortestLength &&
this[i].equals(other[i], ignoreCase = ignoreCase)) {\n        i++\n    }\n    if (this.hasSurrogatePairAt(i - 1) ||
other.hasSurrogatePairAt(i - 1)) {\n        i--\n    }\n    return subSequence(0, i).toString()\n}\n\n/**\n * Returns the
longest
string `suffix` such that this char sequence and [other] char sequence both end with this suffix,\n
* taking care not to
split surrogate pairs.\n
* If this and [other] have no common suffix, returns the empty string.\n
* @param
ignoreCase `true` to ignore character case when matching a character. By default `false`.\n
* @sample
samples.text.Strings.commonSuffixWith\n
*/\npublic fun CharSequence.commonSuffixWith(other: CharSequence,
    ignoreCase: Boolean = false): String {\n    val thisLength = this.length\n    val otherLength = other.length\n    val
shortestLength = minOf(thisLength, otherLength)\n    var i = 0\n    while (i < shortestLength && this[thisLength -
i - 1].equals(other[otherLength - i - 1], ignoreCase = ignoreCase)) {\n        i++\n    }\n    if
(this.hasSurrogatePairAt(thisLength - i - 1) || other.hasSurrogatePairAt(otherLength - i - 1)) {\n        i--\n    }\n    return subSequence(thisLength - i, thisLength).toString()\n}\n\n// indexOfAny()\n\n/**\n * Finds the index
of the first occurrence of any of the specified [chars] in this char sequence,\n
* starting from the specified
[startIndex] and optionally ignoring the case.\n
* @param ignoreCase `true` to ignore character case when
matching a character. By default `false`.\n
* @return An index of the first occurrence of matched character from
[chars] or -1 if none of [chars] are found.\n
*/\npublic fun CharSequence.indexOfAny(chars: CharArray,
    startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n    if (!ignoreCase && chars.size == 1 && this is String) {\n        val char = chars.single()\n        return nativeIndexOf(char, startIndex)\n    }\n    for (index in
startIndex.coerceAtLeast(0)..lastIndex) {\n        val charAtIndex = get(index)\n        if (chars.any {
it.equals(charAtIndex, ignoreCase) })\n            return index\n    }\n    return -1\n}\n\n/**\n * Finds the index of the
last occurrence of any of the specified [chars] in this char sequence,\n
* starting from the specified
[startIndex] and optionally ignoring the case.\n
* @param startIndex The index of character to start searching at.
The search proceeds backward toward the beginning of the string.\n
* @param ignoreCase `true` to ignore character
case when matching a character. By default `false`.\n
* @return An index of the last occurrence of matched
character from [chars] or -1 if none of [chars] are found.\n
*/\npublic fun CharSequence.lastIndexOfAny(chars:
    CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n    if (!ignoreCase && chars.size == 1
&& this is String) {\n        val char = chars.single()\n        return nativeLastIndexOf(char, startIndex)\n    }\n    for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {\n        val charAtIndex = get(index)\n        if

```

```

(chars.any { it.equals(charAtIndex, ignoreCase) })\n        return index\n    }\n    return -1\n}\n\nprivate fun
CharSequence.indexOf(other: CharSequence, startIndex: Int, endIndex:
Int, ignoreCase: Boolean, last: Boolean = false): Int {\n    val indices = if (!last)\nstartIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)\n    else\n        startIndex.coerceAtMost(lastIndex)
downTo endIndex.coerceAtLeast(0)\n    if (this is String && other is String) { // smart cast\n        for (index in
indices) {\n            if (other.regionMatches(0, this, index, other.length, ignoreCase))\n                return index\n        }\n    } else {\n        for (index in indices) {\n            if (other.regionMatchesImpl(0, this, index, other.length,
ignoreCase))\n                return index\n        }\n    }\n    return -1\n}\n\nprivate fun CharSequence.findAnyOf(strings:
Collection<String>, startIndex: Int, ignoreCase: Boolean, last: Boolean): Pair<Int, String>? {\n    if (!ignoreCase
&& strings.size == 1) {\n        val string = strings.single()\n        val index = if (!last) indexOf(string, startIndex) else
lastIndexOf(string, startIndex)\n        return if
        (index < 0) null else index to string\n    }\n    val indices = if (!last) startIndex.coerceAtLeast(0)..length else
startIndex.coerceAtMost(lastIndex) downTo 0\n    if (this is String) {\n        for (index in indices) {\n            val
matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length, ignoreCase) }\n            if
(matchingString != null)\n                return index to matchingString\n        }\n    } else {\n        for (index in indices)
{\n            val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length, ignoreCase) }\n
            if (matchingString != null)\n                return index to matchingString\n        }\n    }\n    return
null\n}\n\n/**\n * Finds the first occurrence of any of the specified [strings] in this char sequence,\n * starting from
the specified [startIndex] and optionally ignoring the case.\n * @param ignoreCase `true` to ignore character
case when matching a string. By default
`false`.\n * @return A pair of an index of the first occurrence of matched string from [strings] and the string
matched\n * or `null` if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings]
have characters in common, this method proceeds from\n * the beginning to the end of this string, and finds at each
position the first element in [strings]\n * that matches this string at that position.\n */\n\npublic fun
CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Pair<Int,
String>? =\n    findAnyOf(strings, startIndex, ignoreCase, last = false)\n\n/**\n * Finds the last occurrence of any of
the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the
case.\n * @param startIndex The index of character to start searching at. The search proceeds backward toward
the beginning of the string.\n * @param ignoreCase `true` to ignore character case when
matching a string. By default `false`.\n * @return A pair of an index of the last occurrence of matched string from
[strings] and the string matched or `null` if none of [strings] are found.\n *\n * To avoid ambiguous results when
strings in [strings] have characters in common, this method proceeds from\n * the end toward the beginning of this
string, and finds at each position the first element in [strings]\n * that matches this string at that position.\n */\n\npublic fun
CharSequence.findLastAnyOf(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase:
Boolean = false): Pair<Int, String>? =\n    findAnyOf(strings, startIndex, ignoreCase, last = true)\n\n/**\n * Finds
the index of the first occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified
[startIndex] and optionally ignoring the case.\n * @param ignoreCase `true` to ignore character case when
matching a string. By default `false`.\n * @return An index of the first occurrence
of matched string from [strings] or -1 if none of [strings] are found.\n *\n * To avoid ambiguous results when
strings in [strings] have characters in common, this method proceeds from\n * the beginning to the end of this string,
and finds at each position the first element in [strings]\n * that matches this string at that position.\n */\n\npublic fun
CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =\n    findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1\n\n/**\n * Finds the index of the last occurrence
of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally
ignoring the case.\n * @param startIndex The index of character to start searching at. The search proceeds
backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching
a string. By default `false`.\n * @return An index of the last

```

occurrence of matched string from [strings] or -1 if none of [strings] are found.

```

    * To avoid ambiguous results
    when strings in [strings] have characters in common, this method proceeds from
    the end toward the beginning of
    this string, and finds at each position the first element in [strings]
    that matches this string at that position.
    *
    public fun CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase:
    Boolean = false): Int =
        findAnyOf(strings, startIndex, ignoreCase, last = true)?.first ?: -1
    //
    indexOf
    *
    Returns the index within this string of the first occurrence of the specified character, starting
    from the specified [startIndex].
    *
    @param ignoreCase `true` to ignore character case when matching a
    character. By default `false`.
    *
    @return An index of the first occurrence of [char] or -1 if none is found.
    *
    public fun CharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false):
    Int {
        return if (ignoreCase || this !is String)
            indexOfAny(charArrayOf(char), startIndex, ignoreCase)
        else
            nativeIndexOf(char, startIndex)
    }
    //
    *
    Returns the index within this char sequence of the first
    occurrence of the specified [string],
    *
    starting from the specified [startIndex].
    *
    @param ignoreCase `true` to
    ignore character case when matching a string. By default `false`.
    *
    @return An index of the first occurrence of
    [string] or -1 if none is found.
    *
    @sample samples.text.Strings.indexOf
    *
    public fun
    CharSequence.indexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {
        return if
        (ignoreCase || this !is String)
            indexOf(string, startIndex, length, ignoreCase)
        else
            nativeIndexOf(string, startIndex)
    }
    //
    *
    Returns the index within this char sequence of the last occurrence of
    the specified character,
    *
    starting from the specified [startIndex].
    *
    @param startIndex
    The index of character to start searching at. The search proceeds backward toward the beginning of the string.
    *
    @param ignoreCase `true` to
    ignore character case when matching a character. By default `false`.
    *
    @return An
    index of the last occurrence of [char] or -1 if none is found.
    *
    public fun CharSequence.lastIndexOf(char: Char,
    startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {
        return if (ignoreCase || this !is String)
            lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)
        else
            nativeLastIndexOf(char,
            startIndex)
    }
    //
    *
    Returns the index within this char sequence of the last occurrence of the specified
    [string],
    *
    starting from the specified [startIndex].
    *
    @param startIndex The index of character to start
    searching at. The search proceeds backward toward the beginning of the string.
    *
    @param ignoreCase `true` to
    ignore character case when matching a string. By default `false`.
    *
    @return An index of the last
    occurrence of [string] or -1 if none is found.
    *
    public fun CharSequence.lastIndexOf(string: String, startIndex:
    Int = lastIndex, ignoreCase: Boolean = false): Int {
        return if (ignoreCase || this !is String)
            indexOf(string,
            startIndex, 0, ignoreCase, last = true)
        else
            nativeLastIndexOf(string, startIndex)
    }
    //
    *
    Returns
    `true` if this char sequence contains the specified [other] sequence of characters as a substring.
    *
    @param
    ignoreCase `true` to ignore character case when comparing strings. By default `false`.
    *
    @Suppress("INAPPLICABLE_OPERATOR_MODIFIER")
    public operator fun
    CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =
        if (other is String)
            indexOf(other, ignoreCase = ignoreCase) >= 0
        else
            indexOf(other, 0, length, ignoreCase) >=
            0
    //
    *
    Returns `true` if this char sequence
    contains the specified character [char].
    *
    @param
    ignoreCase `true` to ignore
    character case when comparing characters. By default `false`.
    *
    @Suppress("INAPPLICABLE_OPERATOR_MODIFIER")
    public operator fun CharSequence.contains(char:
    Char, ignoreCase: Boolean = false): Boolean =
        indexOf(char, ignoreCase = ignoreCase) >= 0
    //
    *
    Returns
    `true` if this char sequence contains at least one match of the specified regular expression [regex].
    *
    @kotlin.internal.InlineOnly
    public inline operator fun CharSequence.contains(regex: Regex): Boolean =
        regex.containsMatchIn(this)
    //
    rangesDelimitedBy
    private class DelimitedRangesSequence(
        private val input: CharSequence,
        private val startIndex: Int,
        private val limit: Int,
        private val getNextMatch:
        CharSequence.(currentIndex: Int) -> Pair<Int, Int>?
    ) : Sequence<IntRange> {
        override fun iterator():
        Iterator<IntRange> = object : Iterator<IntRange> {
            var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for
            continue
            var currentStartIndex: Int = startIndex.coerceIn(0,

```

```

input.length)\n    var nextSearchIndex: Int = currentStartIndex\n        var nextItem: IntRange? = null\n        var
counter: Int = 0\n        private fun calcNext() {\n            if (nextSearchIndex < 0) {\n                nextState = 0\n                nextItem = null\n            } else {\n                if (limit > 0 && ++counter >= limit || nextSearchIndex >
input.length) {\n                    nextItem = currentStartIndex..input.lastIndex\n                    nextSearchIndex = -1\n                } else {\n                    val match = input.getNextMatch(nextSearchIndex)\n                        if (match == null) {\n                            nextItem = currentStartIndex..input.lastIndex\n                                nextSearchIndex = -1\n                        } else
{\n                            val (index, length) = match\n                                nextItem = currentStartIndex until index\n                                    currentStartIndex = index + length\n
                                nextSearchIndex = currentStartIndex + if (length == 0) 1 else 0\n                                    }\n                    }\n                }\n            }\n        }\n        override fun next(): IntRange {\n            if (nextState == -1)\n                calcNext()\n            if (nextState == 0)\n                throw NoSuchElementException()\n            val result = nextItem
as IntRange\n            // Clean next to avoid keeping reference on yielded instance\n            nextItem = null\n            nextState = -1\n            return result\n        }\n        override fun hasNext(): Boolean {\n            if (nextState == -
1)\n                calcNext()\n            return nextState == 1\n        }\n    }\n}\n\n/**\n * Returns a sequence of index
ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n *\n * @param
delimiters One or more characters to be used as delimiters.\n *\n * @param startIndex The index to start searching
delimiters
from.\n *\n * No range having its start value less than [startIndex] is returned.\n *\n * [startIndex] is coerced to be non-
negative and not greater than length of this string.\n *\n * @param ignoreCase `true` to ignore character case when
matching a delimiter. By default `false`.\n *\n * @param limit The maximum number of substrings to return. Zero by
default means no limit is set.\n *\n */\nprivate fun CharSequence.rangesDelimitedBy(delimiters: CharArray, startIndex:
Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\n    requireNonNegativeLimit(limit)\n    return
DelimitedRangesSequence(this, startIndex, limit, { currentIndex ->\n        indexOfAny(delimiters,
currentIndex, ignoreCase = ignoreCase).let { if (it < 0) null else it to 1 } })\n}\n\n/**\n * Returns a sequence
of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n *\n * @param
delimiters One or more strings to be used as delimiters.\n *\n * @param startIndex
The index to start searching delimiters from.\n *\n * No range having its start value less than [startIndex] is returned.\n
*\n * [startIndex] is coerced to be non-negative and not greater than length of this string.\n *\n * @param ignoreCase `true`
to ignore character case when matching a delimiter. By default `false`.\n *\n * @param limit The maximum number of
substrings to return. Zero by default means no limit is set.\n *\n * To avoid ambiguous results when strings in
[delimiters] have characters in common, this method proceeds from\n *\n * the beginning to the end of this string, and
finds at each position the first element in [delimiters]\n *\n * that matches this string at that position.\n *\n */\nprivate fun
CharSequence.rangesDelimitedBy(delimiters: Array<out String>, startIndex: Int = 0, ignoreCase: Boolean = false,
limit: Int = 0): Sequence<IntRange> {\n    requireNonNegativeLimit(limit)\n    val delimitersList =
delimiters.asList()\n    return DelimitedRangesSequence(this, startIndex, limit, { currentIndex
-> findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length }
})\n}\n\ninternal fun requireNonNegativeLimit(limit: Int) =\n    require(limit >= 0) { "Limit must be non-
negative, but was $limit" }\n\n// split\n\n/**\n * Splits this char sequence to a sequence of strings around
occurrences of the specified [delimiters].\n *\n * @param delimiters One or more strings to be used as delimiters.\n
*\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n *\n * @param
limit The maximum number of substrings to return. Zero by default means no limit is set.\n *\n * To avoid
ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\n *\n * the
beginning to the end of this string, and finds at each position the first element in [delimiters]\n *\n * that matches
this string at that position.\n *\n */\npublic fun CharSequence.splitToSequence(vararg delimiters:
String, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =\n    rangesDelimitedBy(delimiters,
ignoreCase = ignoreCase, limit = limit).map { substring(it) }\n\n/**\n * Splits this char sequence to a list of strings
around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more strings to be used as
delimiters.\n *\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n
*\n */

```

@param limit The maximum number of substrings to return. Zero by default means no limit is set.

To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from the beginning to the end of this string, and matches at each position the first element in [delimiters] that is equal to a delimiter in this instance at that position.

```

public fun CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): List<String> {
    if (delimiters.size == 1) {
        val delimiter = delimiters[0]
        if (!delimiter.isEmpty()) {
            return split(delimiter, ignoreCase, limit)
        }
    }
    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }
}

```

Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].

@param delimiters One or more characters to be used as delimiters.

@param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.

@param limit The maximum number of substrings to return.

```

public fun CharSequence.splitToSequence(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =
    rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }

```

Splits this char sequence to a list of strings around occurrences of the specified [delimiters].

@param delimiters One or more characters to be used as delimiters.

@param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.

@param limit The maximum number of substrings to return.

```

public fun CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): List<String> {
    if (delimiters.size == 1) {
        return split(delimiters[0].toString(), ignoreCase, limit)
    }
    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }
}

```

Splits this char sequence to a list of strings around occurrences of the specified [delimiter]. This is specialized version of split which receives single non-empty delimiter and offers better performance.

@param delimiter String used as delimiter

@param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.

@param limit The maximum number of substrings to return.

```

private fun CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {
    requireNonNegativeLimit(limit)
    var currentOffset = 0
    var nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
    if (nextIndex == -1 || limit == 1) {
        return listOf(this.toString())
    }
    val isLimited = limit > 0
    val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)
    do {
        result.add(substring(currentOffset, nextIndex))
        currentOffset = nextIndex + delimiter.length // Do not search for next occurrence if we're reaching limit
        if (isLimited && result.size == limit - 1) break
        nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
    } while (nextIndex != -1)
    result.add(substring(currentOffset, length))
    return result
}

```

Splits this char sequence to a list of strings around matches of the given regular expression.

@param limit Non-negative value specifying the maximum number of substrings to return. Zero by default means no limit is set.

```

@kotlin.internal.InlineOnly
public inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> =
    regex.split(this, limit)

```

Splits this char sequence to a sequence of strings around matches of the given regular expression.

@param limit Non-negative value specifying the maximum number of substrings to return. Zero by default means no limit is set.

@sample samples.text.Strings.splitToSequence

```

@SinceKotlin("1.6")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun CharSequence.splitToSequence(regex: Regex, limit: Int = 0): Sequence<String> =
    regex.splitToSequence(this, limit)

```

Splits this char sequence to a sequence of lines delimited by any of the following character sequences: CRLF, LF or CR.

The lines returned do not include terminating line separators.

```

public fun CharSequence.lineSequence(): Sequence<String> =
    splitToSequence("\r\n", "\n", "\r")

```

Splits this char sequence to a list of lines delimited by any of the following character sequences: CRLF, LF or CR.

The lines returned do not include terminating line separators.

```

public fun CharSequence.lines(): List<String> = lineSequence().toList()

```

Returns `true` if the contents of this char sequence are equal to the contents of the specified [other], i.e. both char sequences contain the same number of the same characters in the same order.

@sample



```

samples.text.Strings.contentEquals\n *\n@SinceKotlin(\\"1.5\\")\npublic expect infix fun
CharSequence?.contentEquals(other: CharSequence?): Boolean\n\n/**\n * Returns `true` if the contents of this char
sequence are equal to the contents of the specified [other], optionally ignoring case difference.\n *\n * @param
ignoreCase `true` to ignore character case when comparing contents.\n *\n * @sample
samples.text.Strings.contentEquals\n
*\n@SinceKotlin(\\"1.5\\")\npublic expect fun CharSequence?.contentEquals(other: CharSequence?, ignoreCase:
Boolean): Boolean\n\ninternal fun CharSequence?.contentEqualsIgnoreCaseImpl(other: CharSequence?): Boolean
{\n if (this is String && other is String) {\n return this.equals(other, ignoreCase = true)\n }\n\n if (this ===
other) return true\n if (this == null || other == null || this.length != other.length) return false\n\n for (i in 0 until
length) {\n if (!this[i].equals(other[i], ignoreCase = true)) {\n return false\n }\n }\n\n return
true\n}\n\ninternal fun CharSequence?.contentEqualsImpl(other: CharSequence?): Boolean {\n if (this is String
&& other is String) {\n return this == other\n }\n\n if (this === other) return true\n if (this == null || other
== null || this.length != other.length) return false\n\n for (i in 0 until length) {\n if (this[i] != other[i]) {\n
return false\n }\n }\n\n return true\n}\n\n/**\n * Returns `true` if the content of this string is equal to the
word `true`, `false` if it is equal to `false`,\n * and throws an exception otherwise.\n *\n * There is also a lenient
version of the function available on nullable String, [String?.toBoolean].\n * Note that this function is case-
sensitive.\n *\n * @sample samples.text.Strings.toBooleanStrict\n *\n@SinceKotlin(\\"1.5\\")\npublic fun
String.toBooleanStrict(): Boolean = when (this) {\n `true` -> true\n `false` -> false\n else -> throw
IllegalArgumentException(\\"The string doesn't represent a boolean value: $this\\")\n}\n\n/**\n * Returns `true` if the
content of this string is equal to the word `true`, `false` if it is equal to `false`,\n * and `null` otherwise.\n *\n * There is also a lenient version of the function available on nullable String, [String?.toBoolean].\n * Note that this
function is case-sensitive.\n *\n * @sample samples.text.Strings.toBooleanStrictOrNull\n
*\n@SinceKotlin(\\"1.5\\")\npublic fun String.toBooleanStrictOrNull(): Boolean? = when (this) {\n `true` ->
true\n `false` -> false\n else -> null\n},"/*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n@n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.jvm.*\n\n@SinceKotlin(\\"1.3\\")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic value class
UByteArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ByteArray) :
Collection<UByte> {\n\n /** Creates a new array of the specified [size], with all elements initialized to zero. *\n
public constructor(size: Int) : this(ByteArray(size))\n\n /**\n * Returns the array element at the given [index].
This method can be called using the index operator.\n *\n * If the [index] is out
of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is
unspecified.\n *\n public operator fun get(index: Int): UByte = storage[index].toUByte()\n\n /**\n * Sets
the element at the given [index] to the given [value]. This method can be called using the index operator.\n *\n
* If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n *
where the behavior is unspecified.\n *\n public operator fun set(index: Int, value: UByte) {\n
storage[index] = value.toByte()\n }\n\n /** Returns the number of elements in the array. *\n public override
val size: Int get() = storage.size\n\n /** Creates an iterator over the elements of the array. *\n public override
operator fun iterator(): kotlin.collections.Iterator<UByte> = Iterator(storage)\n\n private class Iterator(private val
array: ByteArray) : kotlin.collections.Iterator<UByte>
{\n private var index = 0\n override fun hasNext() = index < array.size\n override fun next() = if (index
< array.size) array[index++].toUByte() else throw NoSuchElementException(index.toString())\n }\n\n override
fun contains(element: UByte): Boolean {\n // TODO: Eliminate this check after KT-30016 gets fixed.\n //
Currently JS BE does not generate special bridge method for this method.\n
@Suppress(\\"USELESS_CAST\\")\n if ((element as Any?) !is UByte) return false\n\n return
storage.contains(element.toByte())\n }\n\n override fun containsAll(elements: Collection<UByte>): Boolean {\n
return (elements as Collection<*>).all { it is UByte && storage.contains(it.toByte()) }\n }\n\n override fun
isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each

```



```

operator fun get(index: Int): ULong = storage[index].toULong()\n\n /**\n * Sets the element at the given
[index] to the given [value]. This method can be called using the index operator.\n
*\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in
Kotlin/JS\n * where the behavior is unspecified.\n */\n public operator fun set(index: Int, value: ULong) {\n
storage[index] = value.toLong()\n }\n\n /** Returns the number of elements in the array. */\n public override
val size: Int get() = storage.size\n\n /** Creates an iterator over the elements of the array. */\n public override
operator fun iterator(): kotlin.collections.Iterator<ULong> = Iterator(storage)\n\n private class Iterator(private val
array: LongArray) : kotlin.collections.Iterator<ULong> {\n private var index = 0\n override fun hasNext() =
index < array.size\n override fun next() = if (index < array.size) array[index++].toULong() else throw
NoSuchElementException(index.toString())\n }\n\n override fun contains(element: ULong): Boolean {\n //
TODO: Eliminate this check after KT-30016 gets
fixed.\n // Currently JS BE does not generate special bridge method for this method.\n
@Suppress("USELESS_CAST")\n if ((element as Any?) !is ULong) return false\n\n return
storage.contains(element.toLong())\n }\n\n override fun containsAll(elements: Collection<ULong>): Boolean
{\n return (elements as Collection<*>).all { it is ULong && storage.contains(it.toLong()) }\n }\n\n override
fun isEmpty(): Boolean = this.storage.size == 0\n\n/**\n * Creates a new array of the specified [size], where each
element is calculated by calling the specified\n * [init] function.\n * The function [init] is called for each array
element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray(size: Int, init: (Int) -> ULong): ULongArray {\n return ULongArray(LongArray(size) {
index -> init(index).toLong()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ulongArrayOf(vararg elements: ULong): ULongArray = elements\n", "/*\n * Copyright 2010-2023 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic
value class UShortArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ShortArray) :
Collection<UShort> {\n\n /** Creates a new array of the specified [size], with all elements initialized to zero. */\n
public constructor(size: Int) : this(ShortArray(size))\n\n /**\n * Returns the array element at the given [index].
This method can be called using the index operator.\n * If the [index]
is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n */\n public operator fun get(index: Int): UShort = storage[index].toUShort()\n\n
/**\n * Sets the element at the given [index] to the given [value]. This method can be called using the index
operator.\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except
in Kotlin/JS\n * where the behavior is unspecified.\n */\n public operator fun set(index: Int, value: UShort)
{\n storage[index] = value.toShort()\n }\n\n /** Returns the number of elements in the array. */\n public
override val size: Int get() = storage.size\n\n /** Creates an iterator over the elements of the array. */\n public
override operator fun iterator(): kotlin.collections.Iterator<UShort> = Iterator(storage)\n\n private class
Iterator(private val array: ShortArray) : kotlin.collections.Iterator<UShort>
{\n private var index = 0\n override fun hasNext() = index < array.size\n override fun next() = if (index
< array.size) array[index++].toUShort() else throw NoSuchElementException(index.toString())\n }\n\n override
fun contains(element: UShort): Boolean {\n // TODO: Eliminate this check after KT-30016 gets fixed.\n //
Currently JS BE does not generate special bridge method for this method.\n
@Suppress("USELESS_CAST")\n if ((element as Any?) !is UShort) return false\n\n return
storage.contains(element.toShort())\n }\n\n override fun containsAll(elements: Collection<UShort>): Boolean
{\n return (elements as Collection<*>).all { it is UShort && storage.contains(it.toShort()) }\n }\n\n override
fun isEmpty(): Boolean = this.storage.size == 0\n\n/**\n * Creates a new array of the specified [size], where each
element is calculated by calling the specified\n * [init] function.\n * The

```

function [init] is called for each array element sequentially starting from the first one.\n \* It should return the value for an array element given its index.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray(size: Int, init: (Int) -> UShort): UShortArray {\n    return UShortArray(ShortArray(size) { index ->\n        init(index).toShort()\n    })\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nushortArrayOf(vararg elements: UShort): UShortArray = elements\n"/*\n * Copyright 2010-2023 JetBrains s.r.o.\n and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license\n that can be found in the license/LICENSE.txt file.\n\n*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UArraysKt")\n@file:kotlin.jvm.JvmPackage\nName("kotlin.collections.unsigned")\n\npackage kotlin.collections\n\n// NOTE: THIS FILE IS AUTO-GENERATED
```

```
by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport\nkotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element*\n from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in\n Kotlin/JS\n * where the behavior is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun\nUIntArray.component1(): UInt {\n    return get(0)\n}\n\n/**\n * Returns 1st *element*\n from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\ninline operator fun\nULongArray.component1(): ULong {\n    return get(0)\n}\n\n/**\n * Returns 1st *element*\n from the array.\n * \n * If the size of
```

```
this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\ninline operator fun\nUByteArray.component1(): UByte {\n    return get(0)\n}\n\n/**\n * Returns 1st *element*\n from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in\n Kotlin/JS\n * where the behavior is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun\nUShortArray.component1(): UShort {\n    return get(0)\n}\n\n/**\n * Returns 2nd *element*\n from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun\nUIntArray.component2(): UInt {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element*\n from the array.\n * \n * If the size of this array is less than 2,\n throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun\nULongArray.component2(): ULong {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element*\n from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun\nUByteArray.component2(): UByte {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element*\n from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\ninline operator fun\nUShortArray.component2(): UShort {\n    return get(1)\n}\n\n/**\n * Returns 3rd *element*\n from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in\n Kotlin/JS\n * where the behavior is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UIntArray.component3(): UInt {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

ULongArray.component3(): ULong {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UByteArray.component3(): UByte {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UShortArray.component3(): UShort {\n return get(2)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UIntArray.component4(): UInt {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

ULongArray.component4(): ULong {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UByteArray.component4(): UByte {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UShortArray.component4(): UShort {\n return get(3)\n}\n\n/\*\*\n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UIntArray.component5(): UInt {\n return get(4)\n}\n\n/\*\*\n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

ULongArray.component5(): ULong {\n return get(4)\n}\n\n/\*\*\n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UByteArray.component5(): UByte {\n return get(4)\n}\n\n/\*\*\n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UShortArray.component5(): UShort {\n return get(4)\n}\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \* \n \* @sample samples.collections.Collections.Elements.elementAt\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.elementAt(index: Int): UInt\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
```

```

out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.elementAt(index: Int):
ULong\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]
is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.elementAt(index: Int):
UByte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]
is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.elementAt(index: Int):
UShort\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the
[index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n    return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n    return if (index >= 0 && index
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result
of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n    return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or
`null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.elementAtOrNull(index: Int): UInt? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns
an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.elementAtOrNull(index: Int): ULong? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrNull(index: Int): UByte? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * \n
* @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrNull(index: Int): UShort? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

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UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
inline fun UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the first element.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(): UInt {\n  return storage.first().toUInt()\n}\n\n/**\n * Returns the first element.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.first(): ULong {\n  return storage.first().toULong()\n}\n\n/**\n * Returns the first element.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(): UByte {\n  return storage.first().toUByte()\n}\n\n/**\n * Returns the first element.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.first(): UShort {\n  return storage.first().toUShort()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * \n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(predicate: (UInt) -> Boolean): UInt {\n  for (element in this) if (predicate(element)) return element\n  throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * \n * @throws [NoSuchElementException] if no such element is found.\n */

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.first(predicate: (ULong) -> Boolean): ULong {\n  for (element in this) if
(predicate(element)) return element\n  throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(predicate: (UByte) -> Boolean): UByte {\n  for (element in this) if (predicate(element)) return
element\n  throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.first(predicate: (UShort) -> Boolean): UShort {\n  for (element
in this) if (predicate(element)) return element\n  throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.firstOrNull(): UInt? {\n  return
if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.firstOrNull(): ULong? {\n
return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.firstOrNull(): UByte? {\n
return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.firstOrNull(): UShort? {\n
return
if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {\n  for (element in this) if (predicate(element)) return
element\n  return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element
was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {\n  for (element in this) if
(predicate(element)) return element\n  return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.firstOrNull(predicate: (UByte)
-> Boolean): UByte? {\n  for (element in this) if (predicate(element)) return element\n  return null\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if element was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {\n  for (element in this) if (predicate(element))
return element\n  return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.getOrNull(index: Int, defaultValue: (Int) -> UInt): UInt? {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index]
is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.getOrNull(index: Int, defaultValue: (Int) -> ULong): ULong? {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.getOrNull(index: Int, defaultValue: (Int) -> UByte): UByte {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.getOrNull(index:
Int, defaultValue: (Int) -> UShort): UShort {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.getOrNull(index: Int): UInt? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int):
ULong? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte?
{\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int):
UShort? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of
[element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOf(element: UInt): Int {\n    return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first
index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.indexOf(element: ULong): Int {\n    return storage.indexOf(element.toLong())\n}\n\n/**\n *
Returns first index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOf(element: UByte): Int {\n    return storage.indexOf(element.toByte())\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOf(element: UShort): Int {\n    return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns
index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfFirst(predicate: (UInt) -> Boolean):
Int {\n    return storage.indexOfFirst { predicate(it.toUInt()) }\n}\n\n/**\n * Returns index of the first element
matching the given [predicate], or -1 if the array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {\n    return storage.indexOfFirst {
predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n    return storage.indexOfFirst {
predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the
array does not contain such element.\n

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*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public
inline fun UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {^ return storage.indexOfFirst {
predicate(it.toUShort()) }^}^n/n/**^n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {^ return storage.indexOfLast { predicate(it.toUInt())
}^}^n/n/**^n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain
such element.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public
inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {^ return storage.indexOfLast {
predicate(it.toULong()) }^}^n/n/**^n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public
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predicate(it.toUByte()) }^}^n/n/**^n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {^ return storage.indexOfLast {
predicate(it.toUShort()) }^}^n/n/**^n * Returns the last element.^n * ^n * @throws NoSuchElementException if the
array is empty.^n * ^n * @sample samples.collections.Collections.Elements.last^
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntArray.last(): UInt {^ return storage.last().toUInt()^}^n/n/**^n * Returns the last element.^n * ^n * @throws
NoSuchElementException if the array is empty.^n
* ^n * @sample samples.collections.Collections.Elements.last^
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ULongArray.last(): ULong {^ return storage.last().toULong()^}^n/n/**^n * Returns the last element.^n * ^n *
@throws NoSuchElementException if the array is empty.^n * ^n * @sample
samples.collections.Collections.Elements.last^
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
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*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UShortArray.last(): UShort {^ return storage.last().toUShort()^}^n/n/**^n * Returns the last element matching
the given [predicate].^n * ^n * @throws NoSuchElementException
if no such element is found.^n * ^n * @sample samples.collections.Collections.Elements.last^
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntArray.last(predicate: (UInt) -> Boolean): UInt {^ for (index in this.indices.reversed()) {^ val element =
this[index]^n if (predicate(element)) return element^n }^}^n throw NoSuchElementException("Array contains
no element matching the predicate.")^}^n/n/**^n * Returns the last element matching the given [predicate].^n * ^n *
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*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ULongArray.last(predicate: (ULong) -> Boolean): ULong {^ for (index in this.indices.reversed()) {^ val
element = this[index]^n if (predicate(element)) return element^n }^}^n throw
NoSuchElementException("Array contains no element matching the predicate.")^}^n/n/**^n * Returns the last
element matching the given [predicate].^n * ^n * @throws NoSuchElementException if no such element is found.^n
* ^n * @sample samples.collections.Collections.Elements.last^
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun

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UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n  for (index in this.indices.reversed()) {\n    val
element = this[index]\n    if (predicate(element)) return element\n  }\n  throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n
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*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.last(predicate:
(UShort) -> Boolean): UShort {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n  if
(predicate(element)) return element\n  }\n  throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain
element.\n * \n * @since Kotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline
fun UIntArray.lastIndexOf(element: UInt): Int {\n  return storage.lastIndexOf(element.toInt())\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
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UByteArray.lastIndexOf(element: UByte): Int {\n  return
storage.lastIndexOf(element.toByte())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not
contain element.\n * \n * @since Kotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public
inline fun UShortArray.lastIndexOf(element: UShort): Int {\n  return
storage.lastIndexOf(element.toShort())\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n *
*\n * @sample samples.collections.Collections.Elements.last\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.lastOrNull(): UInt? {\n  return
if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n *
*\n * @sample samples.collections.Collections.Elements.last\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n  return
if (isEmpty()) null else this[size -
1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * \n * @sample
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`null` if no such element was found.\n * \n * \n * @sample samples.collections.Collections.Elements.last\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n  for (index in this.indices.reversed()) {\n    val
element = this[index]\n    if (predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns the last element matching the
given [predicate], or `null` if no such element was found.\n * \n * \n * @sample
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*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n  for (index in this.indices.reversed()) {\n

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val element = this[index]\n
    if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the
given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n    for (index in this.indices.reversed()) {\n
val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a
random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.random(): UInt {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n
* \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.random(): ULong {\n    return random(Random)\n}\n\n/**\n * Returns a random element
from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.random(): UByte {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.random(): UShort {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this
array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random: Random): UInt
{\n    if (isEmpty())\n        throw NoSuchElementException("Array
is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the
specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random):
ULong {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.random(random: Random):
UByte {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is
empty.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.random(random:
Random): UShort {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UIntArray.randomOrNull(): UInt? {\n    return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun ULongArray.randomOrNull(): ULong? {\n    return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.randomOrNull(): UByte? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
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randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of

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randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\np
ublic fun UIntArray.randomOrNull(random: Random): UInt? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\np
ublic
fun ULongArray.randomOrNull(random: Random): ULong? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
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randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\np
ublic fun UShortArray.randomOrNull(random: Random): UShort? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns
the single element, or throws an exception if the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.single(): UInt {\n    return storage.single().toUInt()\n}\n\n/**\n * Returns the single element, or throws an
exception if the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.single(): ULong {\n    return storage.single().toULong()\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.single(): UByte {\n    return storage.single().toUByte()\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.single(): UShort {\n    return storage.single().toUShort()\n}\n\n/**\n * Returns the single
element matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.single(predicate: (UInt) -> Boolean): UInt {\n    var single: UInt? = null\n    var found = false\n    for
(element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UInt\n}\n\n/**\n * Returns the single element matching
the given [predicate], or throws exception if
there is no or more than one matching element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.single(predicate: (ULong) -> Boolean): ULong {\n    var single: ULong? = null\n    var found = false\n
for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as ULong\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.single(predicate: (UByte) -> Boolean): UByte {\n    var single: UByte?

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= null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentException("Array contains more than one matching element.")\n            single = element\n
found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UByte\n}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UShortArray.single(predicate: (UShort) -> Boolean): UShort {\n    var single: UShort? = null\n    var found =
false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentException("Array contains more than one matching element.")\n            single = element\n
found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no element
matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UShort\n}\n\n/**\n *
Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.singleOrNull(): UInt? {\n
return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.singleOrNull(): ULong? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.singleOrNull(): UByte? {\n
return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null`
if the array is empty or has more than one element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.singleOrNull(): UShort? {\n
return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {\n    var single: UInt? = null\n    var found = false\n
for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n
found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element
matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun
ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {\n    var single: ULong? = null\n
var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n
single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one
element was found.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {\n    var single: UByte? = null\n    var found =
false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single =
element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the
single
element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {\n    var single: UShort? = null\n    var found =
false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single =
element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a list
containing all elements except first [n] elements.\n */\n@throws IllegalArgumentException if [n] is negative.\n */\n@sample samples.collections.Collections.Transformations.drop\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.drop(n: Int): List<UInt> {\n
require(n >= 0) {\n    "Requested element count $n is less than zero." }\n    return takeLast((size -

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n).coerceAtLeast(0))\n}\n\n/**\n
 * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n]
 is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\npublic fun ULongArray.drop(n: Int): List<ULong> {\n
    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n
 * Returns a list containing all elements except first [n] elements.\n * \n * @throws
 IllegalArgumentException if [n] is negative.\n * \n * @sample
 samples.collections.Collections.Transformations.drop\n
*\n@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\npublic fun UByteArray.drop(n: Int): List<UByte> {\n
    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n
 * Returns a list containing all elements except first [n] elements.\n * \n * @throws
 IllegalArgumentException\n
 if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\npublic fun UShortArray.drop(n: Int): List<UShort> {\n
    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n
 * Returns a list containing all elements except last [n] elements.\n * \n * @throws
 IllegalArgumentException if [n] is negative.\n * \n * @sample
 samples.collections.Collections.Transformations.drop\n
*\n@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\npublic fun UIntArray.dropLast(n: Int): List<UInt> {\n
    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n
 * Returns a list containing all elements except last [n] elements.\n * \n * @throws
 IllegalArgumentException if [n] is negative.\n * \n * @sample
 samples.collections.Collections.Transformations.drop\n
*\n@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\npublic
 fun ULongArray.dropLast(n: Int): List<ULong> {\n    require(n >= 0) { \"Requested element count $n is less than
 zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n
 * Returns a list containing all elements except last [n] elements.\n * \n * @throws
 IllegalArgumentException if [n] is negative.\n * \n * @sample
 samples.collections.Collections.Transformations.drop\n
*\n@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\npublic fun UByteArray.dropLast(n: Int): List<UByte>
 {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n
 * Returns a list containing all elements except last [n] elements.\n * \n * @throws
 IllegalArgumentException if [n] is negative.\n * \n * @sample
 samples.collections.Collections.Transformations.drop\n
*\n@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\npublic fun UShortArray.dropLast(n: Int):
 List<UShort> {\n    require(n
 >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n
 * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
 samples.collections.Collections.Transformations.drop\n
*\n@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\n@\n@kotlin.internal.InlineOnly\npublic inline fun
 UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    for (index in lastIndex downTo 0) {\n
    if (!predicate(this[index])) {\n        return take(index + 1)\n    }\n    }\n    return emptyList()\n}\n\n/**\n
 * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
 samples.collections.Collections.Transformations.drop\n
*\n@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\n@\n@kotlin.internal.InlineOnly\npublic inline fun
 ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    for (index in lastIndex
 downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return
 emptyList()\n}\n\n/**\n
 * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
 samples.collections.Collections.Transformations.drop\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n  for (index in lastIndex downTo 0)
{\n    if (!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort>
{\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n      return take(index + 1)\n
}\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy
the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {\n  var yielding = false\n  val list =
ArrayList<UInt>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n
      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n  var yielding = false\n  val
list = ArrayList<ULong>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if
(!predicate(item)) {\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list
containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {\n  var yielding = false\n  val list =
ArrayList<UByte>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item))
{\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n  var yielding = false\n  val list =
ArrayList<UShort>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item))
{\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing only
elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n  return filterTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns
a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n  return filterTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {\n  return filterTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filter(predicate:

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(UShort) -> Boolean): List<UShort> {\n return filterTo(ArrayList<UShort>(), predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching the given [predicate].\n \* @param [predicate] function that takes the index of an element and the element itself\n \* and returns the result of predicate evaluation on the element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexed\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt> {\n return\nfilterIndexedTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\ninline fun\nULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong> {\n return\nfilterIndexedTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {\n return\nfilterIndexedTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation\n on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {\n return\nfilterIndexedTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (index: Int, ULong) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element))\n destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (index: Int, UByte) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element))\n destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
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samples.collections.Collections.Filtering.filterIndexedTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterIndexedTo(destination: C, predicate: (index: Int, UShort) ->
Boolean): C {\n  forEachIndexed { index,
  element ->\n    if (predicate(index, element)) destination.add(element)\n  }\n  return destination\n}\n\n/**\n *
Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {\n  return filterNotTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {\n  return filterNotTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {\n  return filterNotTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {\n  return
filterNotTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements not matching the given [predicate]
to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean):
C {\n  for (element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n *
Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {\n
for (element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends
all elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {\n  for
(element in this)
if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {\n
for (element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends
all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {\n  for (element
in this) if (predicate(element)) destination.add(element)\n

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return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n
*\n * @sample samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) -> Boolean): C {\n for
(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {\n for
(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {\n for
(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list
containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: IntRange):
List<UInt> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: IntRange):
List<ULong> {\n if (indices.isEmpty())\n return listOf()\n return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list
containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: IntRange):
List<UByte> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: IntRange):
List<UShort> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: Iterable<Int>):
List<UInt> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<UInt>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: Iterable<Int>):
List<ULong> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<ULong>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: Iterable<Int>):
List<UByte> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<UByte>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: Iterable<Int>):
List<UShort> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<UShort>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns an array containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices:
Collection<Int>): UIntArray {\n return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array

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containing elements of this array at specified [indices].\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices:
Collection<Int>): ULongArray {\n    return ULongArray(storage.sliceArray(indices))\n}\n\n**\n * Returns an array
containing elements
of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.sliceArray(indices: Collection<Int>): UByteArray {\n    return
UByteArray(storage.sliceArray(indices))\n}\n\n**\n * Returns an array containing elements of this array at
specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.sliceArray(indices: Collection<Int>): UShortArray {\n    return
UShortArray(storage.sliceArray(indices))\n}\n\n**\n * Returns an array containing elements at indices in the
specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.sliceArray(indices: IntRange): UIntArray {\n    return UIntArray(storage.sliceArray(indices))\n}\n\n**\n
 * Returns an array containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices: IntRange):
ULongArray {\n    return ULongArray(storage.sliceArray(indices))\n}\n\n**\n
 * Returns an array containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices: IntRange):
UByteArray {\n    return UByteArray(storage.sliceArray(indices))\n}\n\n**\n
 * Returns an array containing
elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices: IntRange):
UShortArray {\n    return UShortArray(storage.sliceArray(indices))\n}\n\n**\n
 * Returns a list containing first [n]
elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.take(n: Int): List<UInt> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n
>= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<UInt>(n)\n
for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n**\n
 * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.take(n: Int): List<ULong> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<ULong>(n)\n
for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n**\n
 * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException
if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.take(n: Int): List<UByte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<UByte>(n)\n
for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n**\n
 * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.take(n: Int): List<UShort> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return
toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<UShort>(n)\n    for (item in
this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n**\n
 * Returns a list
containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.takeLast(n: Int): List<UInt> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<UInt>(n)\n
for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.takeLast(n: Int): List<ULong>
{\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val
size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list =
ArrayList<ULong>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte>
{\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val
size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size
- 1])\n val list = ArrayList<UByte>(n)\n for (index in size - n until size)\n list.add(this[index])\n return
list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is
negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.takeLast(n: Int): List<UShort>
{\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val
size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list =
ArrayList<UShort>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *
Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n for (index in lastIndex downTo
0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n *
Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n for (index in lastIndex downTo 0)
{\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n *
Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n for (index in lastIndex
downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n for (index in lastIndex downTo 0)
{\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {\n val list = ArrayList<UInt>()\n for (item
in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a
list containing first elements satisfying the given [predicate].\n * \n * @sample

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samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    val list = ArrayList<ULong>()\n    for
(item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.takeWhile(predicate:
(UByte) -> Boolean): List<UByte> {\n    val list = ArrayList<UByte>()\n    for (item in this) {\n        if
(!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    val list = ArrayList<UShort>()\n    for
(item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n *
Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-
place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/**\n * Reverses elements of the array in the specified
range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end
of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex,
toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex
the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n
* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex, toIndex)\n}\n\n/**\n *
Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to
reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex, toIndex)\n}\n\n/**\n *
Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reverse(fromIndex: Int, toIndex: Int): Unit
{\n    storage.reverse(fromIndex, toIndex)\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.reversed(): List<UInt> {\n    if

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(isEmpty()) return emptyList()\n  val list = toMutableList()\n  list.reverse()\n  return list\n}\n\n/**\n * Returns a
list with elements in reversed order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.reversed(): List<ULong> {\n  if (isEmpty()) return emptyList()\n  val list = toMutableList()\n
list.reverse()\n  return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.reversed(): List<UByte> {\n
if (isEmpty()) return emptyList()\n  val list = toMutableList()\n  list.reverse()\n  return list\n}\n\n/**\n * Returns
a list with elements in reversed order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.reversed():
List<UShort> {\n  if (isEmpty()) return emptyList()\n  val list = toMutableList()\n  list.reverse()\n  return
list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reversedArray(): UIntArray {\n  return UIntArray(storage.reversedArray())\n}\n\n/**\n * Returns an
array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reversedArray(): ULongArray {\n  return ULongArray(storage.reversedArray())\n}\n\n/**\n *
Returns an array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reversedArray(): UByteArray {\n  return UByteArray(storage.reversedArray())\n}\n\n/**\n * Returns
an array with elements
of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reversedArray(): UShortArray {\n  return UShortArray(storage.reversedArray())\n}\n\n/**\n *
Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements
in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(random: Random): Unit
{\n  for (i in lastIndex downTo 1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] =
this[j]\n    this[j] = copy\n  }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(random: Random):
Unit {\n  for (i in lastIndex downTo 1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] =
this[j]\n    this[j] = copy\n  }\n}\n\n/**\n * Randomly shuffles elements in
this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(random: Random):
Unit {\n  for (i in lastIndex downTo 1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] =
this[j]\n    this[j] = copy\n  }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n

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*^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^public fun UShortArray.shuffle(random: Random):
Unit {^n for (i in lastIndex downTo 1) {^n val j = random.nextInt(i + 1)^n val copy = this[i]^n this[i] =
this[j]^n this[j] = copy^n }^n}^n/^n * Sorts elements in the array in-place
descending according to their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UIntArray.sortDescending(): Unit {^n if
(size > 1) {^n sort()^n reverse()^n }^n}^n/^n * Sorts elements in the array in-place descending
according to their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun ULongArray.sortDescending(): Unit {^n if (size > 1) {^n sort()^n reverse()^n }^n}^n/^n * Sorts
elements in the array in-place descending according to their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UByteArray.sortDescending(): Unit {^n if
(size > 1) {^n sort()^n reverse()^n }^n}^n/^n * Sorts elements in the array in-place descending
according to their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UShortArray.sortDescending(): Unit {^n if (size > 1) {^n sort()^n
reverse()^n }^n}^n/^n * Returns a list of all elements sorted according to their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UIntArray.sorted(): List<UInt> {^n return
copyOf().apply { sort() }.asList()^n}^n/^n * Returns a list of all elements sorted according to their natural sort
order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun ULongArray.sorted():
List<ULong> {^n return copyOf().apply { sort() }.asList()^n}^n/^n * Returns a list of all elements sorted
according to their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UByteArray.sorted(): List<UByte> {^n return copyOf().apply { sort() }.asList()^n}^n/^n * Returns a list of all
elements sorted according to their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UShortArray.sorted(): List<UShort> {^n
return copyOf().apply { sort() }.asList()^n}^n/^n
* Returns an array with all elements of this array sorted according to their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UIntArray.sortedArray(): UIntArray {^n if
(isEmpty()) return this^n return this.copyOf().apply { sort() }^n}^n/^n * Returns an array with all elements of
this array sorted according to their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun ULongArray.sortedArray(): ULongArray
{^n if (isEmpty()) return this^n return this.copyOf().apply { sort() }^n}^n/^n * Returns an array with all
elements of this array sorted according to their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UByteArray.sortedArray(): UByteArray {^n
if (isEmpty()) return this^n return this.copyOf().apply { sort() }^n}^n/^n * Returns an array with all elements
of this array sorted according to their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public
fun UShortArray.sortedArray(): UShortArray {^n if (isEmpty()) return this^n return this.copyOf().apply { sort()
}^n}^n/^n * Returns an array with all elements of this array sorted descending according to their natural sort
order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
UIntArray.sortedArrayDescending(): UIntArray {^n if (isEmpty()) return this^n return this.copyOf().apply {
sortDescending() }^n}^n/^n * Returns an array with all elements of this array sorted descending according to
their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
ULongArray.sortedArrayDescending(): ULongArray {^n if (isEmpty()) return this^n return this.copyOf().apply {
sortDescending() }^n}^n/^n * Returns an array with all elements of this array sorted descending according to
their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
UByteArray.sortedArrayDescending():
UByteArray {^n if (isEmpty()) return this^n return this.copyOf().apply { sortDescending() }^n}^n/^n *
Returns an array with all elements of this array sorted descending according to their natural sort order.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UShortArray.sortedArrayDescending():
UShortArray {^n if (isEmpty()) return this^n return this.copyOf().apply { sortDescending() }^n}^n/^n *

```



Returns a list of all elements sorted descending according to their natural sort order. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UIntArray.sortedDescending(): List<UInt>
{
    return copyOf().apply { sort() }.reversed()
}

```

Returns a list of all elements sorted descending according to their natural sort order. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun ULongArray.sortedDescending(): List<ULong>
{
    return copyOf().apply { sort() }.reversed()
}

```

Returns a list of all elements sorted descending according to their natural sort order. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByteArray.sortedDescending():
List<UByte>
{
    return copyOf().apply { sort() }.reversed()
}

```

Returns a list of all elements sorted descending according to their natural sort order. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UShortArray.sortedDescending(): List<UShort>
{
    return copyOf().apply { sort() }.reversed()
}

```

Returns an array of type `[ByteArray]`, which is a view of this array where each element is a signed reinterpretation of the corresponding element of this array.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray
{
    return storage
}

```

Returns an array of type `[IntArray]`, which is a view of this array where each element is a signed reinterpretation of the corresponding element of this array.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.asIntArray(): IntArray
{
    return storage
}

```

Returns a `[List]` that wraps the original array.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UIntArray.asList():
List<UInt>

```

Returns a `[List]` that wraps the original array.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun ULongArray.asList():
List<ULong>

```

Returns a `[List]` that wraps the original array.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UByteArray.asList(): List<UByte>

```

Returns a `[List]` that wraps the original array.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UShortArray.asList():
List<UShort>

```

Returns an array of type `[LongArray]`, which is a view of this array where each element is a signed reinterpretation of the corresponding element of this array.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.asLongArray(): LongArray
{
    return storage
}

```

Returns an array of type `[ShortArray]`, which is a view of this array where each element is a signed reinterpretation of the corresponding element of this array.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.asShortArray(): ShortArray
{
    return storage
}

```

Returns an array of type `[UByteArray]`, which is a view of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.asUByteArray(): UByteArray
{
    return UByteArray(this)
}

```

Returns an array of type `[UIntArray]`, which is a view of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun IntArray.asUIntArray(): UIntArray
{
    return UIntArray(this)
}

```

Returns an array of type `[ULongArray]`, which is a view of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun LongArray.asULongArray():

```

```

    ULongArray {
        return ULongArray(this)
    }
}
/**
 * Returns an array of type [UShortArray], which is a view
 of this array where each element is an unsigned reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ShortArray.asUShortArray(): UShortArray {
    return UShortArray(this)
}
/**
 * Returns `true` if the two
 specified arrays are *structurally* equal to one another,
 * i.e. contain the same number of the same elements in the
 same order.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public infix fun
UIntArray?.contentEquals(other: UIntArray?): Boolean {
    return
    this?.storage.contentEquals(other?.storage)
}
/**
 * Returns `true` if the two specified arrays are *structurally*
 equal to one another,
 * i.e. contain the same number of the same elements in the same order.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public
infix fun ULongArray?.contentEquals(other: ULongArray?): Boolean {
    return
    this?.storage.contentEquals(other?.storage)
}
/**
 * Returns `true` if the two specified arrays are *structurally*
 equal to one another,
 * i.e. contain the same number of the same elements in the same order.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public infix fun UByteArray?.contentEquals(other:
UByteArray?): Boolean {
    return this?.storage.contentEquals(other?.storage)
}
/**
 * Returns `true` if the
 two specified arrays are *structurally* equal to one another,
 * i.e. contain the same number of the same elements
 in the same order.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public infix fun
UShortArray?.contentEquals(other: UShortArray?): Boolean {
    return
    this?.storage.contentEquals(other?.storage)
}
/**
 * Returns a hash code based on the contents of this array as
 if it is [List].
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public
fun UIntArray?.contentHashCode(): Int {
    return this?.storage.contentHashCode()
}
/**
 * Returns a hash
 code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun ULongArray?.contentHashCode(): Int {
    return
    this?.storage.contentHashCode()
}
/**
 * Returns a hash code based on the contents of this array as if it
 is [List].
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun
UByteArray?.contentHashCode(): Int {
    return this?.storage.contentHashCode()
}
/**
 * Returns a hash
 code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UShortArray?.contentHashCode(): Int {
    return
    this?.storage.contentHashCode()
}
/**
 * Returns a string representation of the contents of the specified
 array as if it is [List].
 */
@sample samples.collections.Arrays.ContentOperations.contentToString
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public
fun UIntArray?.contentToString(): String {
    return this?.joinToString(", ", "[", "]") ?: "null"
}
/**
 * Returns a string representation of the contents of the specified
 array as if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun ULongArray?.contentToString(): String {
    return
    this?.joinToString(", ", "[", "]") ?: "null"
}
/**
 * Returns a string representation of the contents of
 the specified array as if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UByteArray?.contentToString(): String {
    return
    this?.joinToString(", ", "[", "]") ?: "null"
}
/**
 * Returns a string representation of the contents of
 the specified array as if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UShortArray?.contentToString(): String
{
    return this?.joinToString(", ", "[", "]") ?: "null"
}
/**
 * Copies this array or its subrange into the
 [destination] array and returns that array.
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UShortArray?.copyInto(destination: IntArray,
destinationOffset: Int, startIndex: Int, endIndex: Int): IntArray {
    return this?.copyInto(destination, destinationOffset, startIndex,
endIndex)
}
}

```

of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException

when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UIntArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n *
It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning
(inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy,
size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when
[startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws
IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified
[destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the
[destination] array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
ULongArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array
and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange
so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param
destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the
beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n *
\n * @return the [destination] array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex:
Int = size): UByteArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n
return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n
\n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with
the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in
the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to
copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n
\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n *
\n * @return the [destination] array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
size): UShortArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return
destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
```

```

samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOfOf(): UIntArray {\n    return UIntArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array which is
a copy of the original
array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOfOf(): ULongArray {\n    return ULongArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyOfOf(): UByteArray {\n    return UByteArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOfOf(): UShortArray {\n    return UShortArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array, resized to the given [newSize].\n
* The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than
the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size
of the original array, the extra elements in the copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOfOf(newSize: Int): UIntArray {\n    return UIntArray(storage.copyOfOf(newSize))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original
array, the extra elements in the copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.copyOfOf(newSize: Int): ULongArray {\n    return
ULongArray(storage.copyOfOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array,
resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n
* \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If
[newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero
values.\n * \n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UByteArray.copyOfOf(newSize: Int): UByteArray {\n    return UByteArray(storage.copyOfOf(newSize))\n}\n\n/**\n
* Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize]
is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater
than the size of the original array, the extra elements in the copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOfOf(newSize: Int): UShortArray {\n    return UShortArray(storage.copyOfOf(newSize))\n}\n\n/**\n
* Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start
of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOfOfRange(fromIndex:
Int, toIndex: Int): UIntArray {\n    return UIntArray(storage.copyOfOfRange(fromIndex, toIndex))\n}\n\n/**\n
* Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start
of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n    return
ULongArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n *
@param toIndex the end of the range (exclusive) to copy.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n    return
UByteArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n *
@param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOfRange(fromIndex:
Int, toIndex: Int): UShortArray {\n    return UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n *
Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.fill(element: UInt, fromIndex:
Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toInt(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array
or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to
fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.fill(element:
ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toLong(), fromIndex,
toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex
the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill,
size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element:
UByte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toByte(), fromIndex,
toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex
the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill,
size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.fill(element:
UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toShort(), fromIndex,
toIndex)\n}\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.indices: IntRange\n    get()
= storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.indices: IntRange\n    get()
= storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.indices: IntRange\n

```

```

get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.indices: IntRange\n
get() = storage.indices\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.lastIndex: Int\n  get() =
storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.lastIndex: Int\n  get() =
storage.lastIndex\n\n/**\n * Returns the last valid index for the
array.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.lastIndex: Int\n
get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.lastIndex: Int\n  get() =
storage.lastIndex\n\n/**\n * Returns an array containing all elements of the original array and then the given
[element].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
operator fun UIntArray.plus(element: UInt): UIntArray {\n  return UIntArray(storage +
element.toInt())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given
[element].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
operator fun ULongArray.plus(element: ULong): ULongArray {\n  return ULongArray(storage +
element.toLong())\n}\n\n/**\n * Returns an array containing all
elements of the original array and then the given [element].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.plus(element: UByte): UByteArray {\n  return UByteArray(storage + element.toByte())\n}\n\n/**\n *
Returns an array containing all elements of the original array and then the given [element].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.plus(element: UShort): UShortArray {\n  return UShortArray(storage +
element.toShort())\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] collection.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator
fun UIntArray.plus(elements: Collection<UInt>): UIntArray {\n  var index = size\n  val result =
storage.copyOfOf(size + elements.size)\n  for (element in elements) result[index++] = element.toInt()\n
return UIntArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all
elements of the given [elements] collection.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
operator fun ULongArray.plus(elements: Collection<ULong>): ULongArray {\n  var index = size\n  val result =
storage.copyOfOf(size + elements.size)\n  for (element in elements) result[index++] = element.toLong()\n
return ULongArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all
elements of the given [elements] collection.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {\n  var index = size\n  val result =
storage.copyOfOf(size + elements.size)\n  for (element in elements) result[index++] = element.toByte()\n
return UByteArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array
and then all elements of the given [elements] collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun UShortArray.plus(elements:
Collection<UShort>): UShortArray {\n  var index = size\n  val result = storage.copyOfOf(size + elements.size)\n
for (element in elements) result[index++] = element.toShort()\n  return UShortArray(result)\n}\n\n/**\n * Returns
an array containing all elements of the original array and then all elements of the given [elements] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.plus(elements: UIntArray): UIntArray {\n  return UIntArray(storage + elements.storage)\n}\n\n/**\n *
Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.plus(elements: ULongArray): ULongArray
{\n  return ULongArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the
original array and then all elements of the given [elements] array.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.plus(elements: UByteArray): UByteArray {\n    return UByteArray(storage +
elements.storage)\n}\n\n**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.plus(elements: UShortArray): UShortArray {\n    return UShortArray(storage +
elements.storage)\n}\n\n**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.sort(): Unit {\n    if (size > 1) sortArray(this, 0, size)\n}\n\n**\n
 * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(): Unit {\n    if (size > 1)
sortArray(this, 0, size)\n}\n\n**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UByteArray.sort(): Unit {\n    if (size > 1) sortArray(this, 0, size)\n}\n\n**\n * Sorts the array in-place.\n * \n *
@sample samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(): Unit {\n    if (size > 1)
sortArray(this, 0, size)\n}\n\n**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex]
is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sort(fromIndex: Int = 0, toIndex:
Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this, fromIndex,
toIndex)\n}\n\n**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic
fun ULongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this, fromIndex, toIndex)\n}\n\n**\n *
Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by
default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this,
fromIndex, toIndex)\n}\n\n**\n * Sorts a range in the array in-place.\n * \n * @param
fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range
(exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this,
fromIndex, toIndex)\n}\n\n**\n * Sorts elements of the array in the specified range in-place.\n * The elements are
sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive)
to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException

```

if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws  
 IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortDescending(fromIndex: Int,  

toIndex: Int): Unit {\n  sort(fromIndex, toIndex)\n  reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of  

the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort  

order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range  

(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is  

greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(fromIndex:  

Int, toIndex: Int): Unit {\n  sort(fromIndex,  

toIndex)\n  reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n *  

* The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of  

the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws  

IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *  

* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(fromIndex:  

Int, toIndex: Int): Unit {\n  sort(fromIndex, toIndex)\n  reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements  

of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort  

order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range  

(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is  

greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(fromIndex:  

Int, toIndex: Int): Unit {\n  sort(fromIndex, toIndex)\n  reverse(fromIndex, toIndex)\n}\n\n/**\n * Returns an  

array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation\n * of the  

corresponding element of this array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  

UByteArray.toByteArray(): ByteArray {\n  return storage.copyOf()\n}\n\n/**\n * Returns an array of type  

[IntArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding  

element of this array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  

inline fun UIntArray.toIntArray(): IntArray {\n  return storage.copyOf()\n}\n\n/**\n * Returns an array of type  

[LongArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding  

element of this array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  

ULongArray.toLongArray(): LongArray {\n  return storage.copyOf()\n}\n\n/**\n * Returns an array of type  

[ShortArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding  

element of this array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  

UShortArray.toShortArray(): ShortArray {\n  return storage.copyOf()\n}\n\n/**\n * Returns a *typed* object array  

containing all of the elements of this primitive array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.toTypedArray():  

Array<UInt> {\n  return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array  

containing all of the elements of this primitive array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.toTypedArray():  

Array<ULong> {\n  return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array  

containing all of the elements of this primitive array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.toTypedArray():  

Array<UByte> {\n  return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array
```



containing all of the elements of this primitive array.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.toTypedArray():  
Array<UShort> {\n    return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of UByte containing  
all of the elements of this generic array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic  
fun Array<out UByte>.toByteArray(): UByteArray {\n    return UByteArray(size) { index -> this[index]  
}\n}\n\n/**\n * Returns an array of type [UByteArray], which is a copy of this array where each element is an  
unsigned reinterpretation\n * of the corresponding element of this array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ByteArray.toByteArray(): UByteArray {\n    return UByteArray(this.copyOf())\n}\n\n/**\n * Returns an array of  
UInt containing all of the elements of this generic array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out UInt>.toUIntArray(): UIntArray  
{\n    return UIntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UIntArray], which is a  
copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this  
array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline fun IntArray.toUIntArray(): UIntArray {\n    return UIntArray(this.copyOf())\n}\n\n/**\n * Returns an array  
of ULong containing all of the elements of this generic array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out ULong>.toULongArray():  
ULongArray {\n    return ULongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type  
[ULongArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the  
corresponding element of this array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
LongArray.toULongArray(): ULongArray {\n    return ULongArray(this.copyOf())\n}\n\n/**\n * Returns an array  
of UShort containing all of the elements of this generic array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out UShort>.toUShortArray():  
UShortArray {\n    return UShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UShortArray], which is a copy of this array where each element is an unsigned  
reinterpretation\n * of the corresponding element of this array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ShortArray.toUShortArray(): UShortArray {\n    return UShortArray(this.copyOf())\n}\n\n/**\n * Returns a [Map]  
where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to  
each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map  
preserves the entry iteration order of the original array.\n * \n * @sample  
samples.collections.Collections.Transformations.associateWith\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>  
UIntArray.associateWith(valueSelector: (UInt) -> V): Map<UInt, V> {\n    val result = LinkedHashMap<UInt,  
V>(mapCapacity(size).coerceAtLeast(16))\n
```

```
    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the  
given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two  
elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order  
of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>  
ULongArray.associateWith(valueSelector: (ULong) -> V): Map<ULong, V> {\n    val result =  
LinkedHashMap<ULong, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,  
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one  
gets added to
```

```
the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample  
samples.collections.Collections.Transformations.associateWith\n
```

```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UByteArray.associateWith(valueSelector: (UByte) -> V): Map<UByte, V> {\n    val result =
LinkedHashMap<UByte, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UShortArray.associateWith(valueSelector:
(UShort) -> V): Map<UShort, V> {\n    val result = LinkedHashMap<UShort,
V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n *
where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If
any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M >
MutableMap<in UInt, in V>> UIntArray.associateWithTo(destination: M, valueSelector: (UInt) -> V): M {\n    for
(element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable
map with key-value pairs for each element of the given array,\n * where key is the element itself and value is
provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one
overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M >
MutableMap<in ULong, in V>> ULongArray.associateWithTo(destination: M, valueSelector: (ULong) -> V): M
{\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in
the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M >
MutableMap<in UByte, in V>> UByteArray.associateWithTo(destination: M, valueSelector: (UByte) -> V): M {\n    for
(element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
@sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M >
MutableMap<in UShort, in V>> UShortArray.associateWithTo(destination:
M, valueSelector: (UShort) -> V): M {\n    for (element in this) {\n        destination.put(element,
valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R>
{\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.flatMapIndexed(transform: (index: Int, UInt) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.flatMapIndexed(transform: (index: Int, UByte) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> UShortArray.flatMapIndexed(transform: (index: Int, UShort) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.flatMapIndexedTo(destination: C, transform: (index: Int, UInt) ->
Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++, element)\n
destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its
index in the original array, to the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

```

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.flatMapIndexedTo(destination: C, transform: (index: Int, ULong) ->
Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++, element)\n  }\n  destination.addAll(list)\n}\n\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R, C : MutableCollection<in R>> UByteArray.flatMapIndexedTo(destination: C, transform: (index: Int,
UByte) -> Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++,
element)\n  }\n  destination.addAll(list)\n}\n\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, UShort) ->
Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++, element)\n  }\n  destination.addAll(list)\n}\n\n * Appends all elements yielded from results of [transform] function being invoked
on each element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {\n  for
(element in this) {\n    val list = transform(element)\n  }\n  destination.addAll(list)\n}\n\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {\n  for
(element in this) {\n    val list = transform(element)\n  }\n  destination.addAll(list)\n}\n\n * Appends all elements yielded from results of [transform] function being
invoked on each element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {\n  for
(element in this) {\n    val list = transform(element)\n  }\n  destination.addAll(list)\n}\n\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {\n  for
(element in this) {\n    val list = transform(element)\n  }\n  destination.addAll(list)\n}\n\n * Groups elements of the original array by the key returned by the given
[keySelector] function\n * applied to each element and returns a map where each group key is associated with a list
of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from
the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {\n  return groupByTo(LinkedHashMap<K,
MutableList<UInt>>(), keySelector)\n}\n\n * Groups elements of the original array by the key returned by the
given [keySelector] function\n * applied to each element and returns a map where each group key is associated with
a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced

```

```

from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>\n
ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {\n return
groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>\n
UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {\n return
groupByTo(LinkedHashMap<K, MutableList<UByte>>(),
keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>\n
UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {\n return
groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)\n}\n\n/**\n * Groups values returned by
the [valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of
corresponding values.\n * \n * The returned map
preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>\n
UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <K, V> ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K,
List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of
the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and
returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map
preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>\n
UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of
the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and
returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map
preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>

```

UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {  
return  
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/\*\*  
 \* Groups elements  
of the original array by the key returned by the given [keySelector] function  
 \* applied to each element and puts to  
the [destination] map each group key associated with

a list of corresponding elements.\n \* \n \* @return The [destination] map.\n \* \n \* @sample  
samples.collections.Collections.Transformations.groupBy\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M :  
MutableMap<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\nfor (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) {  
ArrayList<UInt>() }\n    list.add(element)\n }\nreturn destination\n}\n\n/**  
 * Groups elements of the  
original array by the key returned by the given [keySelector] function  
 * applied to each element and puts to the  
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The  
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline fun <K, M : MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M,  
keySelector: (ULong) -> K): M {\nfor (element in this) {\n    val key = keySelector(element)\n    val list =  
destination.getOrPut(key) { ArrayList<ULong>() }\n    list.add(element)\n }\nreturn destination\n}\n\n/**  
 * Groups elements of the original array by the key returned by the given [keySelector] function  
 * applied to each  
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M :  
MutableMap<in K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K):  
M {\nfor (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key)  
{ ArrayList<UByte>() }\n    list.add(element)\n }\nreturn destination\n}\n\n/**  
 * Groups elements of the  
original array by the key returned by the given [keySelector] function  
 * applied to each element and puts to the  
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The  
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M :  
MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K):  
M {\nfor (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) {  
ArrayList<UShort>() }\n    list.add(element)\n }\nreturn destination\n}\n\n/**  
 * Groups values returned by  
the [valueTransform] function applied to each element of the original array  
 * by the key returned by the  
given [keySelector] function applied to the element  
 * and puts to the [destination] map each group key associated  
with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample  
samples.collections.Collections.Transformations.groupByKeysAndValues\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,  
M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K,  
valueTransform: (UInt) -> V): M {\nfor (element in this) {\n    val key = keySelector(element)\n    val list =  
destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n }\nreturn  
destination\n}\n\n/**  
 * Groups values returned by the [valueTransform] function applied to each element of the  
original array  
 * by the key returned by the given [keySelector] function applied to the element  
 * and puts to the  
[destination] map each group key associated with
```

a list of corresponding values.\n \* \n \* @return The [destination] map.\n \* \n \* @sample  
samples.collections.Collections.Transformations.groupByKeysAndValues\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,  
M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K,  
valueTransform: (ULong) -> V): M {\nfor (element in this) {\n    val key = keySelector(element)\n    val list  
= destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n }\nreturn
```



```

fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {
    return
    mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the
 * given [transform] function
 * to each element and its index in the original array.
 * @param [transform] function
 * that takes the index of an element and the element itself
 * and returns the result of the transform applied to the
 * element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {
    return
    mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Applies the given [transform] function to each
 * element and its index in the original array
 * and appends the results to the given [destination].
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R, C :
MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {
    var
    index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the results to the given [destination].
 * @param [transform] function that takes the index of an element and the element
 * itself
 * and returns the result of the transform applied to the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R, C :
MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {
    var
    index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return
    destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the results to the given [destination].
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R, C :
MutableCollection<in R>> UByteArray.mapIndexedTo(destination:
C, transform: (index: Int, UByte) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform]
 * function to each element and its index in the original array
 * and appends the results to the given [destination].
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of
 * the transform applied to the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R, C :
MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {
    var
    index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return
    destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and
 * appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R, C :
MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {
    for
    (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given
 * [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R, C :
MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {
    for
    (item in
    this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform]
 * function to each element of the original array
 * and appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R, C :
MutableCollection<in R>> UByteArray.mapTo(destination:
C, transform: (UByte) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return
    destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and
 * appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R, C :

```



```

MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UIntArray.withIndex(): Iterable<IndexedValue<UInt>> {
    return IndexingIterable { iterator() }
}

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun ULongArray.withIndex(): Iterable<IndexedValue<ULong>> {
    return IndexingIterable { iterator() }
}

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByteArray.withIndex(): Iterable<IndexedValue<UByte>> {
    return IndexingIterable { iterator() }
}

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UShortArray.withIndex(): Iterable<IndexedValue<UShort>> {
    return IndexingIterable { iterator() }
}

Returns `true` if all elements match the given [predicate].

Note that if the array contains no elements, the function returns `true` because there are no elements in it that do not match the predicate.

See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous_truth) article.

@sample
samples.collections.Collections.Aggregates.all

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.all(predicate: (UInt) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

Returns `true` if all elements match the given [predicate].

Note that if the array contains no elements, the function returns `true` because there are no elements in it that do not match the predicate.

See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous_truth) article.

@sample
samples.collections.Collections.Aggregates.all

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.all(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

Returns `true` if all elements match the given [predicate].

Note that if the array contains no elements, the function returns `true` because there are no elements in it that do not match the predicate.

See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous_truth) article.

@sample
samples.collections.Collections.Aggregates.all

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.all(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

Returns `true` if all elements match the given [predicate].

Note that if the array contains no elements, the function returns `true` because there are no elements in it that do not match the predicate.

See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous_truth) article.

@sample
samples.collections.Collections.Aggregates.all

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.all(predicate: (UShort) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

Returns `true` if array has at least one element.

@sample
samples.collections.Collections.Aggregates.any

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.any(): Boolean {
    return storage.any()
}

Returns `true` if array has at least one element.

```

```

 * \n * @sample samples.collections.Collections.Aggregates.any\n
 *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
 ULongArray.any(): Boolean {\n    return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one
 element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
 *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
 UByteArray.any(): Boolean {\n    return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one
 element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
 *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
 UShortArray.any(): Boolean {\n    return storage.any()\n}\n\n/**\n * Returns `true` if at least one element matches
 the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
 *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun UIntArray.any(predicate: (UInt) -> Boolean): Boolean {\n    for (element in this) if (predicate(element))
 return true\n    return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
 @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
 *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
 ULongArray.any(predicate: (ULong) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
 true\n    return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
 @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
 *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
 UByteArray.any(predicate: (UByte) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
 true\n    return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
 @sample
 samples.collections.Collections.Aggregates.anyWithPredicate\n
 *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
 UShortArray.any(predicate: (UShort) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
 true\n    return false\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n
 *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
 UIntArray.count(predicate: (UInt) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
 (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the given
 [predicate].\n * \n *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {\n    var count = 0\n    for (element
 in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the
 given [predicate].\n
 *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
 UByteArray.count(predicate: (UByte) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
 (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the given
 [predicate].\n * \n *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
 (predicate(element)) ++count\n    return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
 applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the
 specified [initial] value if the array is empty.\n * \n * @param [operation] function that
 takes current accumulator value and an element, and calculates the next accumulator value.\n
 *^n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
 UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {\n    var accumulator = initial\n    for (element in this)
 accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting
 with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
 \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
 current accumulator value and an element, and calculates the next accumulator value.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {\n  var accumulator = initial\n  for (element in
this) accumulator = operation(accumulator,
  element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified
[initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and
an element, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {\n  var accumulator = initial\n  for (element in
this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that
takes current
  accumulator value and an element, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.fold(initial: R, operation: (acc: R, UShort) -> R): R {\n  var accumulator = initial\n  for (element in
this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n
* @param [operation] function that takes the index of an element, current accumulator value\n * and the element
itself, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R):
  R {\n  var index = 0\n  var accumulator = initial\n  for (element in this) accumulator = operation(index++,
accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current accumulator value and each element with its index in the
original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
  value and applying [operation] from left to right\n * to current accumulator value and each element with its index in
the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n *
  @param [operation] function that takes the index of an element, current accumulator value\n * and the element
itself, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n

```

accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUIntArray.foldRight(initial:
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R, operation: (UInt, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {\n    var index = lastIndex\n    var
```

```
accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R {\n    var index = lastIndex\n    var
```

```
accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator
```

```
value.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {\n
```

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    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {\n    var index =
```

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lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n
```

```
    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
```

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {\n  var index =
lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from right to left\n * to each element with its index in the
original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n *
\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator
value, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {\n  var index =
lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Performs the given [action] on each
element.\n * \n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UIntArray.forEach(action: (UInt) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEach(action: (ULong) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEach(action: (UByte) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.forEach(action: (UShort) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element, providing sequential index with the element.\n * @param [action]
function that takes the index of an element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {\n  var index = 0\n  for (item in
this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and
performs the action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {\n  var index = 0\n  for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {\n  var index = 0\n  for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {\n  var index = 0\n  for (item in this)
action(index++, item)\n}\n\n/**\n * Returns the largest element.\n * \n * @throws NoSuchElementException if the
array is empty.\n * \n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
UIntArray.max(): UInt {\n  if (isEmpty()) throw NoSuchElementException()\n  var max = this[0]\n  for (i in
1..lastIndex) {\n

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        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n
* @throws NoSuchElementException if the array is empty.\n
*\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
UIntArray.max(): ULong {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i
in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the
largest element.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
UByteArray.max(): UByte {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in
1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n *
Returns the largest element.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
UShortArray.max(): UShort {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i
in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function.\n * \n * @throws NoSuchElementException if the array is
empty.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n
*\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow-
U")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@Suppress("CONFLICTING_OVERLOADS
")\npublic inline fun <R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt {\n    if (isEmpty())
throw NoSuchElementException()\n    var maxElem = this[0]\n
    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxElem = selector(maxElem)\n
    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxElem < v) {\n
            maxElem = e\n            maxElem = selector(e)\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the
largest value of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n *
@sample samples.collections.Collections.Aggregates.maxBy\n
*\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow-
U")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@Suppress("CONFLICTING_OVERLOADS
")\npublic inline fun <R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt {\n    if
(isEmpty()) throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if
(lastIndex == 0) return maxElem\n    var maxElem = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val
e = this[i]\n        val v = selector(e)\n        if (maxElem < v) {\n            maxElem = e\n            maxElem =
selector(e)\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value
of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n
*\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow-
U")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@Suppress("CONFLICTING_OVERLOADS
")\npublic inline fun <R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte {\n    if
(isEmpty()) throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if
(lastIndex == 0) return maxElem\n    var maxElem = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val
e = this[i]\n        val v = selector(e)\n        if (maxElem < v) {\n            maxElem = e\n            maxElem =
selector(e)\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value
of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n
*\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow-
U")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@Suppress("CONFLICTING_OVERLOADS
")\npublic inline fun <R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort {\n    if

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(isEmpty()) throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if
(lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given
function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.maxByOrNull(selector: (UInt) -> R): UInt? {\n    if (isEmpty()) return null\n    var
maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)
{\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.maxByOrNull(selector:
(ULong) -> R): ULong? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex =
this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in
1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n
            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value
of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.maxByOrNull(selector: (UByte) -> R): UByte? {\n    if (isEmpty()) return null\n
var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n    for (i in 1..lastIndex)
{\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n           
maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given
function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.maxByOrNull(selector: (UShort) -> R): UShort? {\n    if (isEmpty()) return null\n
var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n    for (i in 1..lastIndex)
{\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n           
maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOf(selector: (UInt) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue =
maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOf(selector: (ULong) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue =

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maxOf(maxValue, v) } return maxValue}

Returns the largest value among all values produced
by [selector] function * applied to each element in the array.
* If any of values produced by [selector]
function is NaN, the returned result is NaN.
* @throws NoSuchElementException if the array is empty.

SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.maxOf(selector:
(UByte) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue =
selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue}

Returns the largest value among all values produced by [selector] function
* applied to each element in the array.
* If any of values produced by [selector] function is NaN, the returned
result is NaN.
* @throws NoSuchElementException if the array is empty.

SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOf(selector: (UShort) -> Double): Double {
    if (isEmpty()) throw
NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
selector(this[i])
        maxValue = maxOf(maxValue,
v)
    }
    return maxValue}

Returns the largest value among all values produced by [selector]
function
* applied to each element in the array.
* If any of values produced by [selector] function is NaN,
the returned result is NaN.
* @throws NoSuchElementException if the array is empty.

SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOf(selector: (UInt) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var
maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue =
maxOf(maxValue, v)
    }
    return maxValue}

Returns the largest value among all values produced
by [selector] function
* applied to each element in the array.
* If any of values produced by [selector]
function
is NaN, the returned result is NaN.
* @throws NoSuchElementException if the array is empty.

SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOf(selector: (ULong) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var
maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue =
maxOf(maxValue, v)
    }
    return maxValue}

Returns the largest value among all values produced
by [selector] function
* applied to each element in the array.
* If any of values produced by [selector]
function is NaN, the returned result is NaN.
* @throws NoSuchElementException if the array is empty.

SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.maxOf(selector: (UByte) -> Float): Float {
    if (isEmpty()) throw
NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue}

Returns the
largest value among all values produced by [selector] function
* applied to each element in the array.
* If any of values produced by [selector] function is NaN, the returned result is NaN.
* @throws
NoSuchElementException if the array is empty.

SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOf(selector: (UShort) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var
maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return
maxValue}

Returns the largest value among all values produced by [selector] function
* applied to

```



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each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.maxOf(selector: (UInt) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException\n if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.maxOf(selector: (ULong) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.maxOf(selector:
(ubyte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n
for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n
}\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.maxOf(selector: (UShort) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns
the largest value among all values produced by [selector] function\n * applied to each element in the
array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOfOrNull(selector: (UInt) -> Double): Double? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n *
If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.maxOfOrNull(selector: (ULong) -> Double): Double? {\n if (isEmpty()) return
null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n
maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the array or `null` if there are no
elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.maxOfOrNull(selector: (ubyte) -> Double): Double? {\n if (isEmpty())

```

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return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all\n * values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.maxOfOrNull(selector: (UShort) -> Double): Double? {\n    if (isEmpty()) return null\n    var\n    maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue =\n        maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n * by [selector]\n * function\n * applied to each element in the array or `null` if there are no elements.\n *\n * If any of values\n * produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.maxOfOrNull(selector: (UInt) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *\n * If any of values produced by [selector]\n * function is `NaN`, the returned result is `NaN`.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\ninline fun\nULongArray.maxOfOrNull(selector: (ULong) -> Float): Float? {\n    if (isEmpty()) return null\n    var\n    maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue =\n        maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *\n * If any of\n * values produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.maxOfOrNull(selector: (UByte) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue =\n    selector(this[0])\n    for\n    (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return\n    maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to\n * each element in the array or `null` if there are no elements.\n *\n * If any of values produced by [selector] function\n * is `NaN`, the returned result is `NaN`.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.maxOfOrNull(selector: (UShort) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return\n    maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n * if there are no elements.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nUIntArray.maxOfOrNull(selector: (UInt) -> R): R? {\n    if (isEmpty()) return null\n    var\n    maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.maxOfOrNull(selector: (ULong) -> R): R? {\n  if (isEmpty()) return
null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value
among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no
elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.maxOfOrNull(selector: (UByte) -> R): R? {\n  if (isEmpty()) return null\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in
the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.maxOfOrNull(selector: (UShort) -> R): R? {\n  if (isEmpty()) return null\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value according to the
provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n *
*\n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.maxOfWith(comparator:
Comparator<in R>, selector: (UInt) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.maxOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n  if (isEmpty()) throw
NoSuchElementException()\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n
    val v = selector(this[i])\n    if (comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n  }\n
  return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.maxOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n  if (isEmpty()) throw
NoSuchElementException()\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (comparator.compare(maxValue, v) < 0) {\n      maxValue = v\n    }\n  }\n  return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.maxOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n  if (isEmpty()) throw
NoSuchElementException()\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =

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selector(this[i])\n    if (comparator.compare(maxValue, v) < 0) {\n        maxValue = v\n    }\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> UIntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n    if
(isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n    if (isEmpty())
return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n    if (isEmpty())
return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n    if (isEmpty())
return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n return maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxOrNull(): UInt? {\n    if
(isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n return max\n}\n\n/**\n * Returns the largest element or
`null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.maxOrNull(): ULong? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n return max\n}\n\n/**\n * Returns the largest element or
`null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.maxOrNull(): UByte? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n return max\n}\n\n/**\n * Returns the largest element or `null`
if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.maxOrNull(): UShort? {\n    if (isEmpty()) return null\n    var max
= this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n return
max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator].\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
UIntArray.maxWith(comparator: Comparator<in UInt>): UInt {\n    if (isEmpty()) throw
NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if

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(comparator.compare(max, e) < 0) max = e\n } \n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is
empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic
fun ULongArray.maxWith(comparator: Comparator<in ULong>): ULong {\n if (isEmpty()) throw
NoSuchElementException()\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n } \n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is
empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
UByteArray.maxWith(comparator: Comparator<in UByte>): UByte {\n if (isEmpty()) throw
NoSuchElementException()\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n } \n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException
if the array is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
UShortArray.maxWith(comparator: Comparator<in UShort>): UShort {\n if (isEmpty()) throw
NoSuchElementException()\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n } \n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWithOrNull(comparator:
Comparator<in UInt>): UInt? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n } \n return max\n}\n\n/**\n * Returns the
first element having the largest value according to
the provided [comparator] or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxWithOrNull(comparator:
Comparator<in ULong>): ULong? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n } \n return max\n}\n\n/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxWithOrNull(comparator:
Comparator<in UByte>): UByte? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n } \n return max\n}\n\n/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic
fun UShortArray.maxWithOrNull(comparator: Comparator<in UShort>): UShort? {\n if (isEmpty()) return null\n
var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max =
e\n } \n return max\n}\n\n/**\n * Returns the smallest element.\n * \n * @throws NoSuchElementException if
the array is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
UIntArray.min(): UInt {\n if (isEmpty()) throw NoSuchElementException()\n var min = this[0]\n for (i in
1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n } \n return min\n}\n\n/**\n * Returns the smallest
element.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic
fun ULongArray.min(): ULong {\n if (isEmpty()) throw NoSuchElementException()\n var min = this[0]\n for
(i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n } \n return min\n}\n\n/**\n * Returns the
smallest element.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow-

```

```

U)\n@ExperimentalUnsignedTypes\n@Suppress(\`CONFLICTING_OVERLOADS\`)npublic fun
UByteArray.min(): UByte {\n if (isEmpty()) throw NoSuchElementException()\n var min = this[0]\n for (i in
1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest
element.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow-
U)\n@ExperimentalUnsignedTypes\n@Suppress(\`CONFLICTING_OVERLOADS\`)npublic fun
UShortArray.min(): UShort {\n if (isEmpty()) throw
NoSuchElementException()\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e)
min = e\n }\n return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given
function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow-
U)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@Suppress(\`CONFLICTING_OVERLOADS
\`)npublic inline fun <R : Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt {\n if (isEmpty())
throw NoSuchElementException()\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex ==
0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val
v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n
}\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function.\n *
*\n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow-
U)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@Suppress(\`CONFLICTING_OVERLOADS
\`)npublic inline fun <R : Comparable<R>> ULongArray.minBy(selector: (ULong) -> R): ULong {\n if
(isEmpty()) throw NoSuchElementException()\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n
}\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function.\n *
*\n * @throws
NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow-
U)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@Suppress(\`CONFLICTING_OVERLOADS
\`)npublic inline fun <R : Comparable<R>> UByteArray.minBy(selector: (UByte) -> R): UByte {\n if
(isEmpty()) throw NoSuchElementException()\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n
}\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function.\n *
*\n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow-
U)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@Suppress(\`CONFLICTING_OVERLOADS
\`)npublic
inline fun <R : Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort {\n if (isEmpty()) throw
NoSuchElementException()\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0)
return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v =
selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return
minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there
are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n

```

```

*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R :
Comparable<R>> UIntArray.minByOrNull(selector: (UInt) -> R):
UInt? {n if (isEmpty()) return nulln var minElem = this[0]n val lastIndex = this.lastIndexn if (lastIndex
== 0) return minElemn var minValue = selector(minElem)n for (i in 1..lastIndex) {n val e = this[i]n
val v = selector(e)n if (minValue > v) {n minElem = en minValue = vn }n }n return
minElemn}n/n/**n * Returns the first element yielding the smallest value of the given function or `null` if there
are no elements.n * n * @sample samples.collections.Collections.Aggregates.minByOrNulln
*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R :
Comparable<R>> ULongArray.minByOrNull(selector: (ULong) -> R): ULong? {n if (isEmpty()) return nulln
var minElem = this[0]n val lastIndex = this.lastIndexn if (lastIndex == 0) return minElemn var minValue =
selector(minElem)n for (i in 1..lastIndex) {n val e = this[i]n
val v = selector(e)n if (minValue > v) {n minElem = en minValue = vn }n }n return
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are no elements.n * n * @sample samples.collections.Collections.Aggregates.minByOrNulln
*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R :
Comparable<R>> UByteArray.minByOrNull(selector: (UByte) -> R): UByte? {n if (isEmpty()) return nulln
var minElem = this[0]n val lastIndex = this.lastIndexn if (lastIndex == 0) return minElemn var minValue =
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val v = selector(e)n if (minValue > v) {n minElem = en minValue = vn }n }n return minElemn}n/n/**n * Returns the first
element yielding the smallest value of the given function or `null` if there
are no elements.n * n * @sample samples.collections.Collections.Aggregates.minByOrNulln
*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R :
Comparable<R>> UShortArray.minByOrNull(selector: (UShort) -> R): UShort? {n if (isEmpty()) return nulln
var minElem = this[0]n val lastIndex = this.lastIndexn if (lastIndex == 0) return minElemn var minValue =
selector(minElem)n for (i in 1..lastIndex) {n val e = this[i]n
val v = selector(e)n if (minValue > v) {n minElem = en minValue = vn }n }n return minElemn}n/n/**n * Returns the smallest
value among all values produced by [selector] functionn * applied to each element in the array.n * n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.n * n * @throws
NoSuchElementException if the array is empty.n
*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic
inline fun UIntArray.minOf(selector: (UInt) -> Double): Double {n if (isEmpty()) throw
NoSuchElementException()n var minValue = selector(this[0])n for (i in 1..lastIndex) {n val v =
selector(this[i])n minValue = minOf(minValue, v)n }n return minValue}n/n/**n * Returns the smallest
value among all values produced by [selector] functionn * applied to each element in the array.n * n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.n * n * @throws
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*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
ULongArray.minOf(selector: (ULong) -> Double): Double {n if (isEmpty())
throw NoSuchElementException()n var minValue = selector(this[0])n for (i in 1..lastIndex) {n val v =
selector(this[i])n minValue = minOf(minValue, v)n }n return minValue}n/n/**n * Returns the smallest
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UByteArray.minOf(selector: (UByte) -> Double): Double {n if (isEmpty()) throw NoSuchElementException()n

```

```

var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     minValue =
minOf(minValue, v)\n } return minValue\n}\n\n/**\n * Returns
the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOf(selector: (UShort) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     minValue =
minOf(minValue, v)\n } return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOf(selector: (UInt) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     minValue =
minOf(minValue, v)\n } return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.minOf(selector: (ULong) -> Float): Float {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v =
selector(this[i])\n     minValue = minOf(minValue, v)\n } return minValue\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.minOf(selector: (UByte) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n
minValue = minOf(minValue, v)\n } return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced
by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOf(selector: (UShort) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     minValue =
minOf(minValue, v)\n } return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.minOf(selector: (UInt) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v =
selector(this[i])\n     if (minValue > v) {\n         minValue = v\n     }\n } return minValue\n}\n\n/**\n *

```



Returns the smallest value among all values produced by [selector] function applied to each element in the array. throws NoSuchElementException if the array is empty.

```

*\/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.minOf(selector:
(ULong) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

```

Returns the smallest value among all values produced by [selector] function applied to each element in the array. throws NoSuchElementException if the array is empty.

```

*\/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.minOf(selector: (UByte) -> R): R {
    if (isEmpty()) throw
NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

```

Returns the smallest value among all values produced by [selector] function applied to each element in the array. throws NoSuchElementException if the array is empty.

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ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.minOf(selector: (UShort) -> R): R {
    if (isEmpty()) throw
NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

```

Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

```

*\/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.minOfOrNull(selector: (UInt) -> Double): Double? {
    if (isEmpty()) return null
    var
minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue =
minOf(minValue, v)
    }
    return minValue
}

```

Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

```

*\/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.minOfOrNull(selector: (ULong) -> Double): Double? {
    if (isEmpty())
return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue =
minOf(minValue, v)
    }
    return minValue
}

```

Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

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*\/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.minOfOrNull(selector: (UByte) -> Double): Double? {
    if (isEmpty()) return null
    var minValue
= selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue =
minOf(minValue, v)
    }
    return minValue
}

```

Returns the smallest value among all values produced by [selector] function applied to each element in the array or `null` if there are no elements. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

```

*\/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOfOrNull(selector: (UShort) -> Double): Double? {
    if (isEmpty()) return null
    var minValue

```

```

= selector(this[0])\n  for (i in 1..lastIndex) {\n      val v = selector(this[i])\n      minValue = minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by\n [selector] function is `NaN`, the returned result is `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\ninline fun UIntArray.minOrNull(selector: (UInt) -> Float): Float? {\n  if (isEmpty()) return null\n  var\n  minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n      val v = selector(this[i])\n      minValue =\n  minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of\n values produced by [selector] function is `NaN`, the returned result is `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.minOrNull(selector: (ULong) -> Float): Float? {\n  if (isEmpty()) return null\n  var minValue =\n  selector(this[0])\n  for (i\n  in 1..lastIndex) {\n      val v = selector(this[i])\n      minValue = minOf(minValue, v)\n  }\n  return\n  minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function\n is `NaN`, the returned result is `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.minOrNull(selector: (UByte) -> Float): Float? {\n  if (isEmpty()) return null\n  var minValue =\n  selector(this[0])\n  for (i in 1..lastIndex) {\n      val v = selector(this[i])\n      minValue = minOf(minValue, v)\n  }\n  return\n  minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n each element in the array or `null` if\n there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.minOrNull(selector: (UShort) -> Float): Float? {\n  if (isEmpty()) return null\n  var minValue =\n  selector(this[0])\n  for (i in 1..lastIndex) {\n      val v = selector(this[i])\n      minValue = minOf(minValue, v)\n  }\n  return\n  minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n each element in the array or `null` if there are no elements.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :\nComparable<R>> UIntArray.minOrNull(selector:\n(UInt) -> R): R? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n      val v = selector(this[i])\n      if (minValue > v) {\n          minValue = v\n      }\n  }\n  return\n  minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n each element in the array or `null` if there are no elements.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :\nComparable<R>> ULongArray.minOrNull(selector: (ULong) -> R): R? {\n  if (isEmpty()) return null\n  var\n  minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n      val v = selector(this[i])\n      if (minValue > v) {\n          minValue = v\n      }\n  }\n  return\n  minValue\n}\n\n/**\n * Returns the smallest value among all values\n produced\n by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.minOfOrNull(selector: (UByte) -> R): R? {\n  if (isEmpty()) return null\n  var
minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (minValue > v) {\n
    minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>>
UShortArray.minOfOrNull(selector: (UShort) -> R): R? {\n  if (isEmpty()) return null\n  var minValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (minValue > v) {\n
minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n *
*\n@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.minOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n  if (isEmpty()) throw
NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (comparator.compare(minValue,
v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value
according to the provided [comparator]\n * among all values produced by [selector] function applied to each
element in the array.\n *
*\n@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.minOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n  if (isEmpty()) throw
NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector]
function applied to each element in the array.\n *
*\n@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.minOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n  if (isEmpty()) throw
NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n *
*\n@throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> UShortArray.minOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n  if
(isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n
val v = selector(this[i])\n  if (comparator.compare(minValue, v) > 0) {\n    minValue = v\n  }\n}\n  return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n  if (isEmpty()) return

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    null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/*
Returns the smallest value according to the provided [comparator] * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n    if (isEmpty())
return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/*
Returns
the smallest value according to the provided [comparator] * among all values produced by [selector] function
applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n    if (isEmpty())
return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/*
Returns the smallest value according to the provided [comparator] * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> UShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n
if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/*
Returns the smallest element or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minOrNull(): UInt? {\n    if
(isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min =
e\n    }\n    return min\n}\n\n/*
Returns the smallest element or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minOrNull():
ULong? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n
if (min > e) min = e\n    }\n    return min\n}\n\n/*
Returns the smallest element or `null` if there are no
elements.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minOrNull():
UByte? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n
if (min > e) min = e\n    }\n    return min\n}\n\n/*
Returns the smallest element or `null` if there are no
elements.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minOrNull():
UShort? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n
if (min > e) min = e\n    }\n    return min\n}\n\n/*
Returns the first element having the smallest value according to
the provided [comparator].\n
*/\n * @throws NoSuchElementException
if the array is empty.\n
*/\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
UIntArray.minWith(comparator: Comparator<in UInt>): UInt {\n    if (isEmpty()) throw
NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if
(comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/*
Returns the first element having the
smallest value according to the provided [comparator].\n
*/\n * @throws NoSuchElementException if the array is
empty.\n
*/\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
ULongArray.minWith(comparator: Comparator<in ULong>): ULong {\n    if (isEmpty()) throw
NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if

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(comparator.compare(min, e)
 > 0) min = e\n } \n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the
 provided [comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
UByteArray.minWith(comparator: Comparator<in UByte>): UByte {\n if (isEmpty()) throw
NoSuchElementException()\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is
empty.\n *\n*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
UShortArray.minWith(comparator: Comparator<in UShort>): UShort
{\n if (isEmpty()) throw NoSuchElementException()\n var min = this[0]\n for (i in 1..lastIndex) {\n val e
= this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWithOrNull(comparator:
Comparator<in UInt>): UInt? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWithOrNull(comparator:
Comparator<in ULong>): ULong? {\n if (isEmpty()) return null\n var min =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n
return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator]
or `null` if there are no elements.\n *\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.minWithOrNull(comparator: Comparator<in UByte>): UByte? {\n if (isEmpty()) return null\n var
min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n
}\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided
[comparator] or `null` if there are no elements.\n
*\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWithOrNull(comparator:
Comparator<in UShort>): UShort? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the array has no
elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(predicate: (UInt) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample

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samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(predicate: (ULong) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
false\n return true\n}\n\n**\n * Returns `true`
if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(predicate: (UByte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
false\n return true\n}\n\n**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(predicate: (UShort) -> Boolean): Boolean {\n for (element in this) if (predicate(element))
return false\n return true\n}\n\n**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.onEach(action: (UInt)
-> Unit): UIntArray {\n return apply { for (element in this) action(element) }\n}\n\n**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.onEach(action: (ULong) -> Unit): ULongArray {\n return apply { for (element in this)
action(element) }\n}\n\n**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.onEach(action: (UByte) -> Unit): UByteArray {\n return apply { for (element in this)
action(element) }\n}\n\n**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.onEach(action: (UShort) -> Unit): UShortArray {\n return apply
{ for (element in this) action(element) }\n}\n\n**\n * Performs the given [action] on each element, providing
sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that
takes the index of an element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.onEachIndexed(action: (index: Int, UInt) -> Unit): UIntArray {\n return apply {
forEachIndexed(action) }\n}\n\n**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.onEachIndexed(action: (index: Int, ULong) -> Unit): ULongArray
{\n return apply { forEachIndexed(action) }\n}\n\n**\n * Performs the given [action] on each element, providing
sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that
takes the index of an element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.onEachIndexed(action: (index: Int, UByte) -> Unit): UByteArray {\n return apply {
forEachIndexed(action) }\n}\n\n**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.onEachIndexed(action: (index: Int, UShort) -> Unit):
UShortArray {\n return apply { forEachIndexed(action) }\n}\n\n**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n *
Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use

```

[reduceOrNull] instead. It returns `null` when its receiver is empty.

```

@sample samples.collections.Collections.Aggregates.reduce
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun
UIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt { \n if (isEmpty()) \n throw
UnsupportedOperationException("Empty array can't be reduced.") \n var accumulator = this[0] \n for (index in
1..lastIndex) { \n accumulator = operation(accumulator, this[index]) \n } \n return accumulator \n } \n \n /** \n * Accumulates value starting with the first element and applying [operation]
from left to right \n * to current accumulator value and each element. \n * \n * Throws an exception if this array is
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* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun
ULongArray.reduce(operation: (acc: ULong, ULong) -> ULong): ULong { \n if (isEmpty()) \n throw
UnsupportedOperationException("Empty array can't be reduced.") \n var accumulator = this[0] \n for (index in
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 UIntArray.reduceIndexedOrNull(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt? { \n if (isEmpty()) \n
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UShort): UShort? {\n  if
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samples.collections.Collections.Aggregates.reduceRight\n
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UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {\n  var index = lastIndex\n  if (index < 0)
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array can't be reduced.")\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator =
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UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {\n  var index = lastIndex\n  if
(index < 0) throw UnsupportedOperationException("Empty
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samples.collections.Collections.Aggregates.reduceRight
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inline fun ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong {\n
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UIntArray.reduceRightIndexedOrNull(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt? {\n    var index =
lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n *

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Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns `null` if the array is empty.  
@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the

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ULongArray.reduceRightIndexedOrNull(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong? {  
    var index = lastIndex  
    if (index < 0) return null  
    var accumulator = get(index--)  
    while (index >= 0) {  
        accumulator = operation(index, get(index), accumulator)  
        --index  
    }  
    return accumulator  
}
```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns `null` if the array is empty.  
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Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns `null` if the array is empty.  
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inline fun UShortArray.reduceRightIndexedOrNull(operation: (index: Int, UShort, acc: UShort) -> UShort):  
UShort? {  
    var index = lastIndex  
    if (index < 0) return null  
    var accumulator = get(index--)  
    while (index  
>= 0) {  
        accumulator = operation(index, get(index), accumulator)  
        --index  
    }  
    return  
accumulator  
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```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Returns `null` if the array is empty.  
@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

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@sample samples.collections.Collections.Aggregates.reduceRightOrNull  
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    if (index < 0) return null  
    var accumulator =  
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    while (index >= 0) {  
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Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Returns `null` if the array is empty.  
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ULong): ULong? {  
    var index = lastIndex  
    if (index < 0) return null  
    var accumulator = get(index--)  
    while (index >= 0) {  
        accumulator = operation(get(index--), accumulator)  
    }  
    return  
accumulator  
}
```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Returns `null` if the array is empty.  
@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```
@sample samples.collections.Collections.Aggregates.reduceRightOrNull  
*^@SinceKotlin("1.4")@ExperimentalUnsignedTypes@WasExperimental(ExperimentalStdlibApi::class)\n
```

```

@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightOrNull(operation: (UByte, acc: UByte) ->
UByte): UByte? {\n  var index = lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n
while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n
* Accumulates value starting with the last element and applying [operation] from right to left\n * to each element
and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function
that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightOrNull(operation: (UShort, acc: UShort) ->
UShort): UShort? {\n  var index = lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n
while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n
* Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.runningFold(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for
(element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n
return result\n}\n\n/**\n
* Returns a list containing successive accumulation values generated by applying
[operation] from left
to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.runningFold(initial: R, operation: (acc: R, ULong) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for
(element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n
return result\n}\n\n/**\n
* Returns a list containing successive accumulation values generated
by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.runningFold(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for
(element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n
return result\n}\n\n/**\n
* Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each element and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.runningFold\n

```

```

*^@SinceKotlin("1.4")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.runningFold(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for
(element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n
return result\n}\n\n/**\n

```

\* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n

```

*^@SinceKotlin("1.4")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n  if (isEmpty())
return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n
for (index in indices) {\n

```

```

    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n

```

```

*^@SinceKotlin("1.4")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n  if
(isEmpty()) return listOf(initial)\n

```

```

    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices)
{\n      accumulator = operation(index, accumulator, this[index])\n      result.add(accumulator)\n    }\n    return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n

```

```

*^@SinceKotlin("1.4")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
<R> UByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n  if
(isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator =
initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n

```

```

*^@SinceKotlin("1.4")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R> {\n  if
(isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator =
initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation

```

values generated by applying [operation] from left to right to each element and current accumulator value that starts with the first element of this array. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes current accumulator value and an element,

and calculates the next accumulator value. @sample  
samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.runningReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {\n    if (isEmpty()) return  
emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UInt>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying  
[operation] from left to right to each element and current accumulator value that starts with the first element of  
this array. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would  
affect the previous value in resulting list. @param [operation] function
```

that takes current accumulator value and an element, and calculates the next accumulator value. @sample  
samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.runningReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {\n    if (isEmpty()) return  
emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<ULong>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying  
[operation] from left to right to each element and current accumulator value that starts with the first element of  
this array. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would  
affect the previous value
```

in resulting list. @param [operation] function that takes current accumulator value and an element, and  
calculates the next accumulator value. @sample

samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.runningReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {\n    if (isEmpty()) return  
emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UByte>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying  
[operation] from left to right to each element and current accumulator value that starts with the first element of  
this array. Note that `acc` value passed to [operation] function should
```

not be mutated; otherwise it would affect the previous value in resulting list. @param [operation]  
function that takes current accumulator value and an element, and calculates the next accumulator value. @sample  
samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.runningReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> {\n    if (isEmpty()) return  
emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UShort>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying  
[operation] from left to right to each element, its index in the original array and current accumulator value that  
starts with the
```

first element of this array. Note that `acc` value passed to [operation] function should not be mutated; otherwise  
it would affect the previous value in resulting list. @param [operation] function that takes the  
index of an element, current accumulator value and the element itself, and calculates the next accumulator  
value. @sample samples.collections.Collections.Aggregates.runningReduce

```

*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UIntArray.runningReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {n if (isEmpty())
return emptyList()n var accumulator = this[0]n val result = ArrayList<UInt>(size).apply { add(accumulator)
}n for (index in 1 until size) {n accumulator = operation(index, accumulator, this[index])n
result.add(accumulator)n }n return resultn}n/n/**n * Returns a list containing successive accumulation
values generated

```

by applying [operation] from left to rightn \* to each element, its index in the original array and current accumulator value that starts with the first element of this array.n \* n \* Note that `acc` value passed to [operation] function should not be mutated;n \* otherwise it would affect the previous value in resulting list.n \* n \* @param [operation] function that takes the index of an element, current accumulator valuen \* and the element itself, and calculates the next accumulator value.n \* n \* @sample samples.collections.Collections.Aggregates.runningReduce

```

*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
ULongArray.runningReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {n if
(isEmpty()) return emptyList()n var accumulator = this[0]n val result = ArrayList<ULong>(size).apply {
add(accumulator) }n for (index in 1 until size) {n accumulator = operation(index, accumulator,
this[index])n result.add(accumulator)n }n return resultn}n/n/**n * Returns a list containing successive
accumulation values generated by applying [operation] from left to rightn * to each element, its index in the original
array and current accumulator value that starts with the first element of this array.n * n * Note that `acc` value
passed to [operation] function should not be mutated;n * otherwise it would affect the previous value in resulting
list.n * n * @param [operation] function that takes the index of an element, current accumulator valuen * and the
element itself, and calculates the next accumulator value.n * n * @sample
samples.collections.Collections.Aggregates.runningReduce

```

```

*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UByteArray.runningReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte> {n if
(isEmpty()) return emptyList()n var accumulator = this[0]n
val result = ArrayList<UByte>(size).apply { add(accumulator) }n for (index in 1 until size) {n
accumulator = operation(index, accumulator, this[index])n result.add(accumulator)n }n return
resultn}n/n/**n * Returns a list containing successive accumulation values generated by applying [operation] from
left to rightn * to each element, its index in the original array and current accumulator value that starts with the first
element of this array.n * n * Note that `acc` value passed to [operation] function should not be mutated;n *
otherwise it would affect the previous value in resulting list.n * n * @param [operation] function that takes the
index of an element, current accumulator valuen * and the element itself, and calculates the next accumulator
value.n * n * @sample samples.collections.Collections.Aggregates.runningReduce

```

```

*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UShortArray.runningReduceIndexed(operation:
(index: Int, acc: UShort, UShort) -> UShort): List<UShort> {n if (isEmpty()) return emptyList()n var
accumulator = this[0]n val result = ArrayList<UShort>(size).apply { add(accumulator) }n for (index in 1 until
size) {n accumulator = operation(index, accumulator, this[index])n result.add(accumulator)n }n
return resultn}n/n/**n * Returns a list containing successive accumulation values generated by applying
[operation] from left to rightn * to each element and current accumulator value that starts with [initial] value.n *
n * Note that `acc` value passed to [operation] function should not be mutated;n * otherwise it would affect the
previous value in resulting list.n * n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.n * n * @sample
samples.collections.Collections.Aggregates.scan

```

```

*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@WasExperimental(ExperimentalStdlibApi::class)n
@kotlin.internal.InlineOnlynpublic
inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R): List<R> {n return runningFold(initial,
operation)n}n/n/**n * Returns a list containing successive accumulation values generated by applying [operation]

```





```

@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc:
R, UByte) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing
successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in
the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed
to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n *
\n * @param [operation] function that takes the index of an element, current accumulator value\n * and
the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scanIndexed(initial: R, operation: (index: Int, acc:
R, UShort) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf
instead.", ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sumBy(selector: (UInt) -> UInt): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.sumBy(selector: (ULong) -> UInt): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.sumBy(selector: (UByte) -> UInt): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sumBy(selector: (UShort) -> UInt): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sumByDouble(selector: (UInt) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.sumByDouble(selector: (ULong) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.sumByDouble(selector: (UByte) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",

```

```

ReplaceWith("this.sumOf(selector)")\n@DeprecatedSinceKotlin(warningSince =
`1.5`)\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sumByDouble(selector: (UShort) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector:
(UInt) -> Double): Double {\n    var sum: Double = 0.toDouble()\n
    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector:
(ULong) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.sumOf(selector: (UByte) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector:
(UShort) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.sumOf(selector: (UInt) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n
sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector:
(ULong) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied
to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:
(UByte) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfInt\")\n
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector:
(UShort) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum += selector(element)\n
    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each
element in the array.\n
*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt)
-> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n
    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector:
(ULong) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:
(UByte) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.sumOf(selector: (UShort) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline
Only\npublic inline fun UIntArray.sumOf(selector: (UInt) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element
in the array.\n
*\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline
Only\npublic inline fun ULongArray.sumOf(selector: (ULong) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n
for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline
Only\npublic inline fun UByteArray.sumOf(selector: (UByte) ->
UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n
    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in

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the array.\n

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*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline\nOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all\n * values produced by [selector] function applied to each element in the array.\n */
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*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")\n\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline\nOnly\npublic
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inline fun UIntArray.sumOf(selector: (UInt) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values\n * produced by [selector] function applied to each element in the array.\n */
```

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*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")\n\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline\nOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
```

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*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")\n\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline\nOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */
```

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*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")\n\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline\nOnly\npublic\n\ninline fun UShortArray.sumOf(selector: (UShort) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns a list of pairs built\n * from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the\n * shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Array<out R>): List<Pair<UInt, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from\n * the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest\n * collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other: Array<out R>): List<Pair<ULong, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of\n * pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has\n * length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Array<out R>): List<Pair<UByte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built\n * from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the\n * shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other: Array<out R>): List<Pair<UShort, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list
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of values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n
    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with
the same index.\n * The returned list has length of the shortest collection.\n
\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other:
Iterable<R>): List<Pair<UInt, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Iterable<R>): List<Pair<ULong, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
infix fun <R> UByteArray.zip(other: Iterable<R>): List<Pair<UByte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:
Iterable<R>): List<Pair<UShort, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] collection with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R, V> UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n  val arraySize =
size\n  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element
in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n  val arraySize = size\n  val
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10),
arraySize))\n  var i = 0\n  for (element in other) {\n    if (i >= arraySize) break\n
list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the
elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function
applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {\n  val arraySize = size\n  val
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10),
arraySize))\n  var i = 0\n  for (element in other) {\n    if (i >= arraySize) break\n
list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a
list of values
built from the elements of `this` array and the [other] collection with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n  val arraySize = size\n  val
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10),
arraySize))\n  var i = 0\n  for (element in other)
{\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray):
List<Pair<UInt, UInt>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray):
List<Pair<ULong, ULong>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray):
List<Pair<UByte,
UByte>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of
`this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other: UShortArray):
List<Pair<UShort, UShort>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built
from the elements of `this` array and the [other] array with the same index\n * using the provided [transform]
function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample

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samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UIntArray.zip(other: UIntArray, transform: (a: UInt,
b: UInt) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until
size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from
the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function
applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i],
other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the
[other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n *
The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i],
other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <V> UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> V): List<V> {\n    val
size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n
list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedT
ypes::class)\npublic fun Array<out UInt>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n
sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out ULong>.sum(): ULong {\n    var sum: ULong = 0uL\n    for (element in this)
{\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the
sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out UByte>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n
sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out UShort>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n
sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sum(): UInt {\n    return storage.sum().toUInt()\n}\n\n/**\n * Returns the sum of all elements in the
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.sum(): ULong {\n    return storage.sum().toULong()\n}\n\n/**\n * Returns the sum of all elements in
the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UByteArray.sum(): UInt {\n    return sumOf { it.toUInt() }\n}\n\n/**\n * Returns the sum of all elements in the
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sum(): UInt {\n    return sumOf { it.toUInt() }\n}\n\n"/**\n * Copyright 2010-2023 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that

```



can be found in the license/LICENSE.txt file.\n

```
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UCollectionsKt\")\n\npackage  
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:  
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport
```

```
kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an array of  
UByte containing all of the elements of this collection.\n
```

```
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UByte>.toUByteArray():  
UByteArray {\n    val result = UByteArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] =  
element\n    return result\n}\n\n/**\n * Returns an array of UInt containing all of the elements of this collection.\n
```

```
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UInt>.toUIntArray(): UIntArray  
{\n    val result = UIntArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of ULong containing all of the elements of this collection.\n
```

```
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<ULong>.toULongArray():  
ULongArray {\n    val result = ULongArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an  
array of UShort containing all of the elements of this collection.\n
```

```
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UShort>.toUShortArray():  
UShortArray {\n    val result = UShortArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] =  
element\n    return result\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
```

```
*\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedT  
ypes::class)\npublic fun Iterable<UInt>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum  
+= element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
```

```
*\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsigned  
Types::class)\npublic fun Iterable<ULong>.sum(): ULong {\n    var sum: ULong = 0uL\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns  
the sum of all elements in the collection.\n
```

```
*\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsigned  
Types::class)\npublic fun Iterable<UByte>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum  
+= element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
```

```
*\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsigned  
Types::class)\npublic fun Iterable<UShort>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum  
+= element\n    }\n    return sum\n}\n\n\"/*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming  
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the  
license/LICENSE.txt file.\n
```

```
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UComparisonsKt\")\n\npackage  
kotlin.comparisons\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:  
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns the  
greater of two values.\n
```

```
*\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UInt, b:  
UInt): UInt {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n
```

```
*\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: ULong,  
b: ULong): ULong {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n
```

```
*\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UByte,  
b: UByte): UByte {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n
```

```
*\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic  
fun maxOf(a: UShort, b: UShort): UShort {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of three  
values.\n
```

```
*\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
```

```

public inline fun maxOf(a: UInt, b: UInt, c: UInt): UInt {
    return maxOf(a, maxOf(b, c))
}
Returns the greater of three values.

@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun maxOf(a: ULong, b: ULong, c: ULong): ULong {
    return maxOf(a, maxOf(b, c))
}
Returns the greater of three values.

@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {
    return maxOf(a, maxOf(b, c))
}
Returns the greater of three values.

@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {
    return maxOf(a, maxOf(b, c))
}
Returns the greater of the given values.

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun maxOf(a: UInt, vararg other: UInt): UInt {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}
Returns the greater of the given values.

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun maxOf(a: ULong, vararg other: ULong): ULong {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}
Returns the greater of the given values.

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun maxOf(a: UByte, vararg other: UByte): UByte {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}
Returns the greater of the given values.

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun maxOf(a: UShort, vararg other: UShort): UShort {
    var max = a
    for (e in other) max = maxOf(max, e)
    return max
}
Returns the smaller of two values.

@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun minOf(a: UInt, b: UInt): UInt {
    return if (a <= b) a else b
}
Returns the smaller of two values.

@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun minOf(a: ULong, b: ULong): ULong {
    return if (a <= b) a else b
}
Returns the smaller of two values.

@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun minOf(a: UByte, b: UByte): UByte {
    return if (a <= b) a else b
}
Returns the smaller of two values.

@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun minOf(a: UShort, b: UShort): UShort {
    return if (a <= b) a else b
}
Returns the smaller of three values.

@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun minOf(a: UInt, b: UInt, c: UInt): UInt {
    return minOf(a, minOf(b, c))
}
Returns the smaller of three values.

@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {
    return minOf(a, minOf(b, c))
}
Returns the smaller of three values.

@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun minOf(a: UByte, b: UByte, c: UByte): UByte {
    return minOf(a, minOf(b, c))
}
Returns the smaller of three values.

@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {
    return minOf(a, minOf(b, c))
}
Returns the smaller of the given values.

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun minOf(a: UInt, vararg other: UInt): UInt {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}
Returns the smaller of the given values.

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun minOf(a: ULong, vararg other: ULong): ULong {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}
Returns the smaller of the given values.

```

```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UByte, vararg other: UByte):
UByte {\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n * Returns the smaller of
the given values.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UShort, vararg
other: UShort): UShort {\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n"/*\n *
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Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("URangesKt")\n\npackage
kotlin.ranges\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns the
first element.\n */\n * @throws NoSuchElementException if the progression is empty.\n
*\n@SinceKotlin("1.7")\npublic fun UIntProgression.first(): UInt {\n    if (isEmpty())\n        throw
NoSuchElementException("Progression $this is empty.")\n    return this.first\n}\n\n/**\n * Returns the first
element.\n */\n * @throws NoSuchElementException if the progression is empty.\n
*\n@SinceKotlin("1.7")\npublic fun ULongProgression.first(): ULong {\n    if (isEmpty())\n        throw
NoSuchElementException("Progression $this
is empty.")\n    return this.first\n}\n\n/**\n * Returns the first element, or `null` if the progression is empty.\n
*\n@SinceKotlin("1.7")\npublic fun UIntProgression.firstOrNull(): UInt? {\n    return if (isEmpty()) null else
this.first\n}\n\n/**\n * Returns the first element, or `null` if the progression is empty.\n
*\n@SinceKotlin("1.7")\npublic fun ULongProgression.firstOrNull(): ULong? {\n    return if (isEmpty()) null else
this.first\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the progression is
empty.\n */\n * @sample samples.collections.Collections.Elements.last\n\n@SinceKotlin("1.7")\npublic fun
UIntProgression.last(): UInt {\n    if (isEmpty())\n        throw NoSuchElementException("Progression $this
is empty.")\n    return this.last\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if
the progression is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.7")\npublic
fun ULongProgression.last(): ULong {\n    if (isEmpty())\n        throw NoSuchElementException("Progression
$this is empty.")\n    return this.last\n}\n\n/**\n * Returns the last element, or `null` if the progression is empty.\n
*\n * @sample samples.collections.Collections.Elements.last\n\n@SinceKotlin("1.7")\npublic fun
UIntProgression.lastOrNull(): UInt? {\n    return if (isEmpty()) null else this.last\n}\n\n/**\n * Returns the last
element, or `null` if the progression is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.7")\npublic fun ULongProgression.lastOrNull(): ULong? {\n    return if (isEmpty()) null else
this.last\n}\n\n/**\n * Returns a random element from this range.\n */\n * @throws IllegalArgumentException if this
range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
npublic inline fun UIntRange.random(): UInt {\n    return random(Random)\n}\n\n/**\n * Returns a random element
from this range.\n */\n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
npublic inline fun ULongRange.random(): ULong {\n    return random(Random)\n}\n\n/**\n * Returns a random
element from this range using the specified source of randomness.\n */\n * @throws IllegalArgumentException if
this range is empty.\n */\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun UIntRange.random(random: Random): UInt {\n    try {\n        return random.nextUInt(this)\n    } catch(e:
IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a
random element from this range using the specified source of randomness.\n */\n * @throws
IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun ULongRange.random(random: Random): ULong {\n    try {\n        return random.nextULong(this)\n    }
catch(e: IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n *

```

Returns a random element from this range, or `null` if this range is empty.

```

* \n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class) \n @kotlin.internal.InlineOnly \n public inline fun UIntRange.randomOrNull():
UInt? { \n     return randomOrNull(Random) \n } \n \n /** \n * Returns a random element from this range, or `null` if this
range is empty. \n * \n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class) \n @kotlin.internal.InlineOnly \n public inline fun ULongRange.randomOrNull():
ULong? { \n     return randomOrNull(Random) \n } \n \n /** \n * Returns a random element from this range using the
specified source of randomness, or `null` if this range is empty. \n
* \n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class) \n public fun UIntRange.randomOrNull(random: Random): UInt? { \n     if
(isEmpty()) \n         return null \n     return random.nextUInt(this) \n } \n \n /** \n * Returns a random element from this
range using the specified source of randomness, or `null` if this range is empty. \n
* \n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class) \n public fun ULongRange.randomOrNull(random: Random): ULong? { \n     if
(isEmpty()) \n         return null \n     return random.nextULong(this) \n } \n \n /** \n * Returns `true` if this range contains
the specified [element]. \n * \n * Always returns `false` if the [element] is `null`. \n
* \n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n @kotlin.internal.InlineOnly \n
public inline operator fun UIntRange.contains(element: UInt?): Boolean { \n     return element != null &&
contains(element) \n } \n \n /** \n * Returns `true` if this
range contains the specified [element]. \n * \n * Always returns `false` if the [element] is `null`. \n
* \n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n @kotlin.internal.InlineOnly \n
public inline operator fun ULongRange.contains(element: ULong?): Boolean { \n     return element != null &&
contains(element) \n } \n \n /** \n * Checks if the specified [value] belongs to this range. \n
* \n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n public operator fun
UIntRange.contains(value: UByte): Boolean { \n     return contains(value.toUInt()) \n } \n \n /** \n * Checks if the
specified [value] belongs to this range. \n
* \n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n public operator fun
ULongRange.contains(value: UByte): Boolean { \n     return contains(value.toULong()) \n } \n \n /** \n * Checks if the
specified [value] belongs to this range. \n
* \n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n public operator
fun ULongRange.contains(value: UInt): Boolean { \n     return contains(value.toULong()) \n } \n \n /** \n * Checks if
the specified [value] belongs to this range. \n
* \n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n public operator fun
UIntRange.contains(value: ULong): Boolean { \n     return (value shr UInt.SIZE_BITS) == 0uL &&
contains(value.toUInt()) \n } \n \n /** \n * Checks if the specified [value] belongs to this range. \n
* \n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n public operator fun
UIntRange.contains(value: UShort): Boolean { \n     return contains(value.toUInt()) \n } \n \n /** \n * Checks if the
specified [value] belongs to this range. \n
* \n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n public operator fun
ULongRange.contains(value: UShort): Boolean { \n     return contains(value.toULong()) \n } \n \n /** \n * Returns a
progression from this value down to the specified [to] value with the step -1. \n * \n * The
[to] value should be less than or equal to `this` value. \n * \n * If the [to] value is greater than `this` value the returned
progression is empty. \n
* \n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n public infix fun
UByte.downTo(to: UByte): UIntProgression { \n     return UIntProgression.fromClosedRange(this.toUInt(),
to.toUInt(), -1) \n } \n \n /** \n * Returns a progression from this value down to the specified [to] value with the step -
1. \n * \n * The [to] value should be less than or equal to `this` value. \n * \n * If the [to] value is greater than `this` value
the returned progression is empty. \n

```

```

*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UInt.downTo(to: UInt): UIntProgression {\n    return UIntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n *
Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should
be less than or equal to `this` value.\n * If the
[to] value is greater than `this` value the returned progression is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
ULong.downTo(to: ULong): ULongProgression {\n    return ULongProgression.fromClosedRange(this, to, -
1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n *
The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the
returned progression is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UShort.downTo(to: UShort): UIntProgression {\n    return UIntProgression.fromClosedRange(this.toUInt(),
to.toUInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the
same step.\n *\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UIntProgression.reversed(): UIntProgression
{\n    return UIntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over
the same range in the opposite direction with the same step.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULongProgression.reversed(): ULongProgression {\n    return ULongProgression.fromClosedRange(last, first, -
step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UIntProgression.step(step: Int): UIntProgression {\n    checkStepIsPositive(step > 0, step)\n    return
UIntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression
that goes over the same range with the given step.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
ULongProgression.step(step: Long): ULongProgression {\n
    checkStepIsPositive(step > 0, step)\n    return ULongProgression.fromClosedRange(first, last, if (this.step > 0) step
else -step)\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the
[to] value is less than or equal to `this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UByte.until(to: UByte): UIntRange {\n    if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n    return
this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UInt.until(to:
UInt): UIntRange {\n    if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY\n    return this .. (to -
1u).toUInt()\n}\n\n/**\n * Returns a
range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to
`this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
ULong.until(to: ULong): ULongRange {\n    if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY\n
return this .. (to - 1u).toULong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UShort.until(to: UShort): UIntRange {\n    if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY\n    return
this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Ensures that this value is not less than the specified
[minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or
the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun

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```

UInt.coerceAtLeast(minimumValue: UInt): UInt {\n  return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceAtLeast(minimumValue: ULong): ULong {\n  return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UByte.coerceAtLeast(minimumValue: UByte): UByte {\n  return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceAtLeast(minimumValue: UShort): UShort {\n  return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun UInt.coerceAtMost(maximumValue: UInt): UInt {\n  return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceAtMost(maximumValue: ULong): ULong {\n  return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun UByte.coerceAtMost(maximumValue: UByte): UByte {\n  return if (this > maximumValue) maximumValue
else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return
this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceAtMost(maximumValue: UShort): UShort {\n  return if (this > maximumValue) maximumValue
else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n
* @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {\n  if (minimumValue > maximumValue)
throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n  if (this < minimumValue) return minimumValue\n  if (this > maximumValue)
return maximumValue\n  return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n

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*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {\n if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range:
maximum $maximumValue is less than minimum $minimumValue.")\n if (this < minimumValue) return
minimumValue\n if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this
value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range,
or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {\n if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
$maximumValue is less than minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n
if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value
lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or
[minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {\n if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
$maximumValue is less than minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n
if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the
specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than
`range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n
* \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UInt.coerceIn(range: ClosedRange<UInt>): UInt {\n if (range is ClosedFloatingPointRange) {\n return
this.coerceIn<UInt>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to
an empty range: $range.")\n return when {\n this < range.start -> range.start\n this > range.endInclusive -
> range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n
* @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or
`range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceIn(range:
ClosedRange<ULong>): ULong {\n if (range is ClosedFloatingPointRange) {\n return
this.coerceIn<ULong>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value
to an empty range: $range.")\n return when {\n this < range.start -> range.start\n this >
range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n"/*\n * Copyright 2010-2023 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("USequencesKt")\n\npackage
kotlin.sequences\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns the
sum of all elements in the sequence.\n * \n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedT
ypes::class)\npublic fun Sequence<UInt>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum
+= element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n * \n * The
operation is _terminal_.\n

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*/\n@kotlin.jvm.JvmName("\sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Sequence<ULong>.sum(): ULong {\n    var sum: ULong = 0uL\n    for (element in this)
{\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *
The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("\sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Sequence<UByte>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n
sum += element\n    }\n    return sum\n}\n\n/**\n * Returns
the sum of all elements in the sequence.\n *
The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("\sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Sequence<UShort>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n
sum += element\n    }\n    return sum\n}\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\npublic expect open class Error : Throwable {\n
constructor()\n    constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n
constructor(cause: Throwable?)\n}\n\npublic expect open class Exception : Throwable {\n    constructor()\n
constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n    constructor(cause:
Throwable?)\n}\n\npublic expect open class
RuntimeException : Exception {\n    constructor()\n    constructor(message: String?)\n    constructor(message:
String?, cause: Throwable?)\n    constructor(cause: Throwable?)\n}\n\npublic expect open class
IllegalArgumentException : RuntimeException {\n    constructor()\n    constructor(message: String?)\n
constructor(message: String?, cause: Throwable?)\n    constructor(cause: Throwable?)\n}\n\npublic expect open
class IllegalStateException : RuntimeException {\n    constructor()\n    constructor(message: String?)\n
constructor(message: String?, cause: Throwable?)\n    constructor(cause: Throwable?)\n}\n\npublic expect open
class IndexOutOfBoundsException : RuntimeException {\n    constructor()\n    constructor(message:
String?)\n}\n\npublic expect open class ConcurrentModificationException : RuntimeException {\n    constructor()\n
constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n    constructor(cause:
Throwable?)\n}\n\npublic expect open
class UnsupportedOperationException : RuntimeException {\n    constructor()\n    constructor(message: String?)\n
constructor(message: String?, cause: Throwable?)\n    constructor(cause: Throwable?)\n}\n\npublic expect open
class NumberFormatException : IllegalArgumentException {\n    constructor()\n    constructor(message:
String?)\n}\n\npublic expect open class NullPointerException : RuntimeException {\n    constructor()\n
constructor(message: String?)\n}\n\npublic expect open class ClassCastException : RuntimeException {\n
constructor()\n    constructor(message: String?)\n}\n\npublic expect open class AssertionError : Error {\n
constructor()\n    constructor(message: Any?)\n}\n\n@SinceKotlin("1.9")\n    constructor(message: String?, cause:
Throwable?)\n}\n\npublic expect open class NoSuchElementException : RuntimeException {\n    constructor()\n
constructor(message: String?)\n}\n\n@SinceKotlin("1.3")\npublic expect open class ArithmeticException :
RuntimeException
{\n    constructor()\n    constructor(message: String?)\n}\n\n@Deprecated("This exception type is not supposed to
be thrown or caught in common code and will be removed from kotlin-stdlib-common soon.", level =
DeprecationLevel.ERROR)\npublic expect open class NoWhenBranchMatchedException : RuntimeException {\n
constructor()\n    constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n
constructor(cause: Throwable?)\n}\n\n@Deprecated("This exception type is not supposed to be thrown or caught in
common code and will be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)\npublic
expect class UninitializedPropertyAccessException : RuntimeException {\n    constructor()\n
constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n    constructor(cause:
Throwable?)\n}\n\n/**\n * Thrown after invocation of a function or property that was expected to return `Nothing`,
but returned something instead.\n

```



```

*^@SinceKotlin("1.4")\n@PublishedApi\ninternal class KotlinNothingValueException : RuntimeException {\n
constructor() : super()\n constructor(message: String?) : super(message)\n constructor(message: String?, cause:
Throwable?) : super(message, cause)\n constructor(cause: Throwable?) : super(cause)\n}\n\n/**\n * Returns the
detailed description of this throwable with its stack trace.\n * The detailed description includes:\n * - the short
description (see [Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of
the exceptions that were [suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed
description of each throwable in the [Throwable.cause] chain.\n */\n@SinceKotlin("1.4")\npublic expect fun
Throwable.stackTraceToString(): String\n\n/**\n * Prints the [detailed description][Throwable.stackTraceToString]
of this throwable to the standard output or standard error output.\n
*^@SinceKotlin("1.4")\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\npublic
expect fun Throwable.printStackTrace(): Unit\n\n/**\n * When supported by the platform, adds the specified
exception to the list of exceptions that were\n * suppressed in order to deliver this exception.\n
*^@SinceKotlin("1.4")\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\npublic expect fun
Throwable.addSuppressed(exception: Throwable)\n\n/**\n * Returns a list of all exceptions that were suppressed in
order to deliver this exception.\n * The list can be empty:\n * - if no exceptions were suppressed;\n * - if the
platform doesn't support suppressed exceptions;\n * - if this [Throwable] instance has disabled the suppression.\n
*^@SinceKotlin("1.4")\npublic expect val Throwable.suppressedExceptions: List<Throwable>\n", "/*\n *
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governed by the Apache 2.0 license that can be found in the license/LICENSE.txt
file.\n */\n\npackage kotlin.js\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * Gives a declaration (a
function, a property or a class) specific name in JavaScript.\n */\n@Target(CLASS, FUNCTION, PROPERTY,
CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)\n@OptionalExpectation\npublic expect
annotation class JsName(val name: String)\n\n/**\n * Marks experimental JS export annotations.\n * Note that
behavior of these annotations will likely be changed in the future.\n * Usages of such annotations will be
reported as warnings unless an explicit opt-in with\n * the [OptIn] annotation, e.g.
`@OptIn(ExperimentalJsExport::class)`,\n * or with the `-opt-in=kotlin.js.ExperimentalJsExport` compiler option is
given.\n */\n@RequiresOptIn(level =
RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Since
Kotlin("1.4")\npublic annotation class ExperimentalJsExport\n\n/**\n * Exports top-level declaration on JS
platform.\n * Compiled
module exposes declarations that are marked with this annotation without name mangling.\n * This annotation
can be applied to either files or top-level declarations.\n * It is currently prohibited to export the following kinds
of declarations:\n * * `expect` declarations\n * * inline functions with reified type parameters\n * * suspend
functions\n * * secondary constructors without `@JsName`\n * * extension properties\n * * enum classes\n * *
annotation classes\n * * Signatures of exported declarations must only contain `"exportable"` types:\n * *
`dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`\n * * `BooleanArray`, `ByteArray`,
`ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n * * `Array<exportable-type>`\n * * Function types with
exportable parameters and return types\n * * `external` or `@JsExport` classes and interfaces\n * * Nullable
counterparts of types above\n * * Unit return type. Must not be
nullable\n * * This annotation is experimental, meaning that restrictions mentioned above are subject to change.\n
*^@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY,
FUNCTION, FILE)\n@SinceKotlin("1.4")\n@OptionalExpectation\npublic expect annotation class JsExport() {\n
/*\n * The annotation prevents exporting the annotated member of an exported class.\n * This annotation is
experimental, meaning that the restrictions mentioned above are subject to change.\n */\n
*^@ExperimentalJsExport\n @Retention(AnnotationRetention.BINARY)\n @Target(CLASS, PROPERTY,
FUNCTION)\n @SinceKotlin("1.8")\n @OptionalExpectation\n public annotation class
Ignore()\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
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```

```

*\n\npackage kotlin.io\n\n/** Prints the line separator
to the standard output stream. *\npublic expect fun println()\n\n/** Prints the given [message] and the line
separator to the standard output stream. *\npublic expect fun println(message: Any?)\n\n/** Prints the given
[message] to the standard output stream. *\npublic expect fun print(message: Any?)\n\n/**\n * Reads a line of input
from the standard input stream and returns it,\n * or throws a [RuntimeException] if EOF has already been reached
when [readLn] is called.\n *\n * LF or CRLF is treated as the line terminator. Line terminator is not included in the
returned string.\n *\n * Currently this function is not supported in Kotlin/JS and throws
[UnsupportedOperationException].\n *\n@SinceKotlin("1.6")\n\npublic expect fun readLn(): String\n\n/**\n * Reads a line of input from the standard input stream and returns it,\n * or return `null` if EOF has already been
reached when [readLnOrNull] is called.\n *\n * LF or CRLF is treated as the line terminator. Line terminator is not
included in the returned string.\n *\n * Currently this function is not supported in Kotlin/JS and throws
[UnsupportedOperationException].\n *\n@SinceKotlin("1.6")\n\npublic expect fun readLnOrNull():
String?\n\ninternal class ReadAfterEOFException(message: String?) : RuntimeException(message)\n\n\ninternal
expect interface Serializable\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\npackage kotlin.collections\n\nimport kotlin.internal.PlatformDependent\n\n/**\n * Classes that inherit from this interface can be represented as a sequence of elements that can\n * be iterated over.\n *
@param T the type of element being iterated over. The iterator is covariant in its element type.\n *\n\npublic interface
Iterable<out T> {\n // **\n // * Returns an iterator over the elements of this object.\n // *\n // public operator
fun iterator(): Iterator<T>\n}\n\n/**\n * Classes that inherit from this interface can be represented as a sequence of
elements that can\n * be iterated over and that supports removing elements during iteration.\n * @param T the type
of element being iterated over. The mutable iterator is invariant in its element type.\n *\n\npublic interface
MutableIterable<out T> : Iterable<T> {\n // **\n // * Returns an iterator over the elements of this sequence that
supports removing elements during iteration.\n // *\n // override fun iterator(): MutableIterator<T>\n}\n\n/**\n * A
generic collection of elements. Methods in this interface support only read-only access to the collection;\n *
read/write access is supported through the [MutableCollection] interface.\n * @param E the type of elements
contained in the collection. The collection is covariant in its element type.\n *\n\npublic interface Collection<out E> :
Iterable<E> {\n // Query Operations\n // **\n // * Returns the size of the
collection.\n // *\n // public val size: Int\n\n // **\n // * Returns `true` if the collection is empty (contains no
elements), `false` otherwise.\n // *\n // public fun isEmpty(): Boolean\n\n // **\n // * Checks if the specified
element is contained in this collection.\n // *\n // public operator fun contains(element: @UnsafeVariance E):
Boolean\n\n // Bulk Operations\n // **\n // * Checks if all elements in
the specified collection are contained in this collection.\n // *\n // public fun containsAll(elements:
Collection<@UnsafeVariance E>): Boolean\n}\n\n/**\n * A generic collection of elements that supports adding and
removing elements.\n *\n * @param E the type of elements contained in the collection. The mutable collection is
invariant in its element type.\n *\n\npublic interface MutableCollection<E> : Collection<E>, MutableIterable<E> {\n
// Query Operations\n // override fun iterator(): MutableIterator<E>\n\n //
Modification Operations\n // **\n // * Adds the specified element to the collection.\n // *\n // * @return `true` if
the element has been added, `false` if the collection does not support duplicates\n // * and the element is already
contained in the collection.\n // *\n // public fun add(element: E): Boolean\n\n // **\n // * Removes a single
instance of the specified element from this\n // * collection, if it is present.\n // *\n // * @return `true` if the element
has been successfully removed; `false` if it was not present in the collection.\n // *\n // public fun remove(element:
E): Boolean\n\n // Bulk Modification Operations\n // **\n // * Adds all of the elements of the specified collection
to this collection.\n // *\n // * @return `true` if any of the specified elements was added to the collection, `false` if
the collection was not modified.\n // *\n // public fun addAll(elements: Collection<E>): Boolean\n\n // **\n // *
Removes all of this collection's elements
that are also contained in the specified collection.\n // *\n // * @return `true` if any of the specified elements was
removed from the collection, `false` if the collection was not modified.\n // *\n // public fun removeAll(elements:

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Collection<E>): Boolean\n\n /**\n * Retains only the elements in this collection that are contained in the
specified collection.\n *\n * @return `true` if any element was removed from the collection, `false` if the
collection was not modified.\n */\n public fun retainAll(elements: Collection<E>): Boolean\n\n /**\n * Removes all elements from this collection.\n */\n public fun clear(): Unit\n\n/**\n * A generic ordered
collection of elements. Methods in this interface support only read-only access to the list;\n * read/write access is
supported through the [MutableList] interface.\n * @param E the type of elements contained in the list. The list is
covariant in its element type.\n */\npublic interface List<out
E> : Collection<E> {\n // Query Operations\n\n override val size: Int\n override fun isEmpty(): Boolean\n
override fun contains(element: @UnsafeVariance E): Boolean\n override fun iterator(): Iterator<E>\n\n // Bulk
Operations\n override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n\n // Positional
Access Operations\n /**\n * Returns the element at the specified index in the list.\n */\n public operator fun
get(index: Int): E\n\n // Search Operations\n /**\n * Returns the index of the first occurrence of the specified
element in the list, or -1 if the specified\n * element is not contained in the list.\n */\n public fun
indexOf(element: @UnsafeVariance E): Int\n\n /**\n * Returns the index of the last occurrence of the specified
element in the list, or -1 if the specified\n * element is not contained in the list.\n */\n public fun
lastIndexOf(element: @UnsafeVariance E): Int\n\n //
List Iterators\n /**\n * Returns a list iterator over the elements in this list (in proper sequence).\n */\n
public fun listIterator(): ListIterator<E>\n\n /**\n * Returns a list iterator over the elements in this list (in proper
sequence), starting at the specified [index].\n */\n public fun listIterator(index: Int): ListIterator<E>\n\n //
View\n /**\n * Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and
[toIndex] (exclusive).\n * The returned list is backed by this list, so non-structural changes in the returned list are
reflected in this list, and vice-versa.\n *\n * Structural changes in the base list make the behavior of the view
undefined.\n */\n public fun subList(fromIndex: Int, toIndex: Int): List<E>\n\n/**\n * A generic ordered
collection of elements that supports adding and removing elements.\n * @param E the type of elements contained in
the list. The mutable list is invariant
in its element type.\n */\npublic interface MutableList<E> : List<E>, MutableCollection<E> {\n // Modification
Operations\n /**\n * Adds the specified element to the end of this list.\n *\n * @return `true` because the
list is always modified as the result of this operation.\n */\n override fun add(element: E): Boolean\n\n
override fun remove(element: E): Boolean\n\n // Bulk Modification Operations\n /**\n * Adds all of the
elements of the specified collection to the end of this list.\n *\n * The elements are appended in the order they
appear in the [elements] collection.\n *\n * @return `true` if the list was changed as the result of the
operation.\n */\n override fun addAll(elements: Collection<E>): Boolean\n\n /**\n * Inserts all of the
elements of the specified collection [elements] into this list at the specified [index].\n *\n * @return `true` if the
list was changed as the result of the operation.\n
*/\n public fun addAll(index: Int, elements: Collection<E>): Boolean\n\n override fun removeAll(elements:
Collection<E>): Boolean\n\n override fun retainAll(elements: Collection<E>): Boolean\n\n override fun clear():
Unit\n\n // Positional Access Operations\n /**\n * Replaces the element at the specified position in this list
with the specified element.\n *\n * @return the element previously at the specified position.\n */\n public
operator fun set(index: Int, element: E): E\n\n /**\n * Inserts an element into the list at the specified [index].\n
*/\n public fun add(index: Int, element: E): Unit\n\n /**\n * Removes an element at the specified [index] from
the list.\n *\n * @return the element that has been removed.\n */\n public fun removeAt(index: Int): E\n\n
// List Iterators\n override fun listIterator(): MutableListIterator<E>\n\n override fun listIterator(index: Int):
MutableListIterator<E>\n\n
// View\n override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>\n\n/**\n * A generic unordered
collection of elements that does not support duplicate elements.\n * Methods in this interface support only read-only
access to the set;\n * read/write access is supported through the [MutableSet] interface.\n * @param E the type of
elements contained in the set. The set is covariant in its element type.\n */\npublic interface Set<out E> :
Collection<E> {\n // Query Operations\n\n override val size: Int\n override fun isEmpty(): Boolean\n

```

```

override fun contains(element: @UnsafeVariance E): Boolean
override fun iterator(): Iterator<E>
// Bulk Operations
override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean
// A generic unordered collection of elements that does not support duplicate elements, and supports adding and removing elements.
// @param E the type of elements contained in the set. The mutable set is invariant in its element type.
public interface MutableSet<E> : Set<E>, MutableCollection<E> {
// Query Operations
override fun iterator(): MutableIterator<E>
// Modification Operations
/**
 * Adds the specified element to the set.
 * @return `true` if the element has been added, `false` if the element is already contained in the set.
 */
override fun add(element: E): Boolean
override fun remove(element: E): Boolean
// Bulk Modification Operations
override fun addAll(elements: Collection<E>): Boolean
override fun removeAll(elements: Collection<E>): Boolean
override fun retainAll(elements: Collection<E>): Boolean
override fun clear(): Unit
}
// A collection that holds pairs of objects (keys and values) and supports efficiently retrieving the value corresponding to each key. Map keys are unique; the map holds only one value for each key.
// Methods in this interface support only read-only access to the map; read-write access is supported through the [MutableMap] interface.
// @param K the type of map keys. The map is invariant in its key type, as it can accept key as a parameter (of [containsKey] for example) and return it in [keys] set.
// @param V the type of map values. The map is covariant in its value type.
public interface Map<K, out V> {
// Query Operations
/**
 * Returns the number of key/value pairs in the map.
 */
public val size: Int
/**
 * Returns `true` if the map is empty (contains no elements), `false` otherwise.
 */
public fun isEmpty(): Boolean
/**
 * Returns `true` if the map contains the specified [key].
 */
public fun containsKey(key: K): Boolean
/**
 * Returns `true` if the map maps one or more keys to the specified [value].
 */
public fun containsValue(value: @UnsafeVariance V): Boolean
/**
 * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.
 */
public operator fun get(key: K): V?
/**
 * Returns the value corresponding to the given [key], or [defaultValue] if such a key is not present in the map.
 */
@since JDK 1.8
@SinceKotlin("1.1")
@PlatformDependent
public fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V {
// See default implementation in JDK sources
throw NotImplementedError()
}
// Views
/**
 * Returns a read-only [Set] of all keys in this map.
 */
public val keys: Set<K>
/**
 * Returns a read-only [Collection] of all values in this map. Note that this collection may contain duplicate values.
 */
public val values: Collection<V>
/**
 * Returns a read-only [Set] of all key/value pairs in this map.
 */
public val entries: Set<Map.Entry<K, V>>
}
// Represents a key/value pair held by a [Map].
public interface Entry<out K, out V> {
/**
 * Returns the key of this key/value pair.
 */
public val key: K
/**
 * Returns the value of this key/value pair.
 */
public val value: V
}
// A modifiable collection that holds pairs of objects (keys and values) and supports efficiently retrieving the value corresponding to each key. Map keys are unique; the map holds only one value for each key.
// @param K the type of map keys. The map is invariant in its key type.
// @param V the type of map values. The mutable map is invariant in its value type.
public interface MutableMap<K, V> : Map<K, V> {
// Modification Operations
/**
 * Associates the specified [value] with the specified [key] in the map.
 * @return the previous value associated with the key, or `null` if the key was not present in the map.
 */
public fun put(key: K, value: V): V?
/**
 * Removes the specified key and its corresponding value from this map.
 * @return the previous value associated with the key, or `null` if the key was not present in the map.
 */
public fun remove(key: K): V?
/**
 * Removes the entry for the specified key only if it is mapped to the specified value.
 * @return true if entry was removed
 */
@SinceKotlin("1.1")
@PlatformDependent
public fun remove(key: K, value: V): Boolean {
// See default implementation in JDK sources
return true
}
// Bulk Modification Operations
/**
 * Updates this map with key/value pairs from the specified map [from].
 */
public fun putAll(from: Map<out K, V>): Unit
/**
 * Removes all elements from this map.
 */
public fun clear(): Unit
// Views
/**
 * Returns a

```

```

[MutableSet] of all keys in this map.\n    */\n    override
    val keys: MutableSet<K>\n\n    /**\n     * Returns a [MutableCollection] of all values in this map. Note that this
collection may contain duplicate values.\n    */\n    override val values: MutableCollection<V>\n\n    /**\n     * Returns a [MutableSet] of all key/value pairs in this map.\n    */\n    override val entries:
MutableSet<MutableMap.MutableEntry<K, V>>\n\n    /**\n     * Represents a key/value pair held by a
[MutableMap].\n    */\n    public interface MutableEntry<K, V> : Map.Entry<K, V> {\n        /**\n         * Changes
the value associated with the key of this entry.\n        */\n        * @return the previous value corresponding to the
key.\n        */\n        public fun setValue(newValue: V): V\n    }\n\n    /**\n     * Copyright 2010-2015 JetBrains
s.r.o.\n    */\n    * Licensed under the Apache License, Version 2.0 (the "License");\n    * you may not use this file except
in compliance with the License.\n    * You may obtain a copy of the License at\n    */\n    *
http://www.apache.org/licenses/LICENSE-2.0\n
    */\n    * Unless required by applicable law or agreed to in writing, software\n    * distributed under the License is
distributed on an "AS IS" BASIS,\n    * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express or implied.\n    * See the License for the specific language governing permissions and\n    * limitations under
the License.\n    */\n\npackage kotlin\n\n/**\n * The type with only one value: the `Unit` object. This type
corresponds to the `void` type in Java.\n */\npublic object Unit {\n    override fun toString() =
"kotlin.Unit"\n\n    /**\n     * Copyright 2010-2015 JetBrains s.r.o.\n    */\n    * Licensed under the Apache License,
Version 2.0 (the "License");\n    * you may not use this file except in compliance with the License.\n    * You may
obtain a copy of the License at\n    */\n    * http://www.apache.org/licenses/LICENSE-2.0\n    */\n    * Unless required by
applicable law or agreed to in writing, software\n    * distributed under the License is distributed on an "AS IS"
BASIS,\n    * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n    * See the License
for the specific language governing permissions and\n    * limitations under the License.\n    */\n\npackage
kotlin.annotation\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * Contains the list of code elements
which are the possible annotation targets\n */\npublic enum class AnnotationTarget {\n    /** Class, interface or
object, annotation class is also included */\n    CLASS,\n    /** Annotation class only */\n
ANNOTATION_CLASS,\n    /** Generic type parameter */\n    TYPE_PARAMETER,\n    /** Property */\n
PROPERTY,\n    /** Field, including property's backing field */\n    FIELD,\n    /** Local variable */\n
LOCAL_VARIABLE,\n    /** Value parameter of a function or a constructor */\n    VALUE_PARAMETER,\n
/** Constructor only (primary or secondary) */\n    CONSTRUCTOR,\n    /** Function (constructors are not
included) */\n    FUNCTION,\n    /** Property getter only */\n
PROPERTY_GETTER,\n    /** Property setter only */\n    PROPERTY_SETTER,\n    /** Type usage */\n
TYPE,\n    /** Any expression */\n    EXPRESSION,\n    /** File */\n    FILE,\n    /** Type alias */\n
TYPEALIAS\n\n    /**\n     * Contains the list of possible annotation's retentions.\n    */\n    *
Determines how an annotation is stored in binary output.\n    */\n\npublic enum class AnnotationRetention {\n    /**
Annotation isn't stored in binary output */\n    SOURCE,\n    /** Annotation is stored in binary output, but invisible
for reflection */\n    BINARY,\n    /** Annotation is stored in binary output and visible for reflection (default
retention) */\n    RUNTIME\n\n    /**\n     * This meta-annotation indicates the kinds of code elements which are
possible targets of an annotation.\n    */\n    * If the target meta-annotation is not present on an annotation declaration,
the annotation is applicable to the following elements:\n    */\n    * [CLASS], [PROPERTY], [FIELD],
[LOCAL_VARIABLE],
[VALUE_PARAMETER], [CONSTRUCTOR], [FUNCTION], [PROPERTY_GETTER],
[PROPERTY_SETTER].\n    */\n    * @property allowedTargets list of allowed annotation targets\n
*/\n\n    * @Target(AnnotationTarget.ANNOTATION_CLASS)\n\n    @MustBeDocumented\n    public annotation class
Target(vararg val allowedTargets: AnnotationTarget)\n\n    /**\n     * This meta-annotation determines whether an
annotation is stored in binary output and visible for reflection. By default, both are true.\n    */\n    * @property value
necessary annotation retention (RUNTIME, BINARY or SOURCE)\n
*/\n\n    * @Target(AnnotationTarget.ANNOTATION_CLASS)\n\n    public annotation class Retention(val value:

```



```

CharSequence, startIndex: Int, endIndex: Int): CharSequence {
    if (c is String) {
        return
c.substring(startIndex, endIndex)
    } else {
        return c.asDynamic().`subSequence_vux9f0$`(startIndex,
endIndex)
    }
}

@JsName("captureStack")
internal fun
captureStack(@Suppress("UNUSED_PARAMETER") baseClass: JsClass<in Throwable>, instance: Throwable)
{
    if (js("Error").captureStackTrace) {
        // Using uncropped stack traces due to KT-37563.
        // Precise
stack traces are implemented in JS IR compiler and stdlib
        js("Error").captureStackTrace(instance)
    } else {
        instance.asDynamic().stack = js("new Error()").stack
    }
}

@JsName("newThrowable")
internal fun
newThrowable(message: String?, cause: Throwable?): Throwable {
    val throwable = js("new Error()")
    throwable.message = if (jsTypeOf(message) == "undefined") {
        if (cause != null) cause.toString() else null
    } else {
        message
    }
    throwable.cause = cause
    throwable.name = "Throwable"
    return
throwable
}

@JsName("BoxedChar")
internal class BoxedChar(val c: Int) : Comparable<Int> {
    override fun
equals(other: Any?): Boolean {
        return other is BoxedChar && c == other.c
    }
    override fun
hashCode(): Int {
        return c
    }
    override fun toString(): String {
        return
js("this.c").unsafeCast<Char>().toString()
    }
    override fun compareTo(other: Int): Int {
        return
js("this.c - other").unsafeCast<Int>()
    }
}

@JsName("valueOf")
public fun valueOf(): Int {
    return c
}

@kotlin.internal.InlineOnly
internal inline fun <T> concat(args: Array<T>): T {
    val typed
= js("Array")(args.size)
    for (i in args.indices) {
        val arr = args[i]
        if (arr !is Array<*>) {
            typed[i] = js("[]").slice.call(arr)
        } else {
            typed[i] = arr
        }
    }
    return js("[").concat.apply(js("["], typed)
}

/** Concat regular Array's and TypedArray's into an Array.
*
* @PublishedApi
* @JsName("arrayConcat")
* @Suppress("UNUSED_PARAMETER")
* internal fun <T>
arrayConcat(a: T, b: T): T {
    return concat(js("arguments"))
}

/** Concat primitive arrays. Main use:
prepare vararg arguments.
* For compatibility with 1.1.0 the arguments may be a mixture of Array's and
TypedArray's.
* If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray)
returns a TypedArray, otherwise an Array.
* If the first argument has the $type$ property (Boolean-, Char-, and
LongArray) copy its value to result.$type$.
* If the first argument is a regular Array without the $type$ property
default to arrayConcat.
*
* @PublishedApi
* @JsName("primitiveArrayConcat")
* @Suppress("UNUSED_PARAMETER")
* internal fun <T>
primitiveArrayConcat(a: T, b: T): T {
    val args: Array<T> = js("arguments")
    if
(a is Array<*> && a.asDynamic().`$type$` === undefined) {
        return concat(args)
    } else {
        var size =
0
        for (i in args.indices) {
            size += args[i].asDynamic().length as Int
        }
        val result = js("new
a.constructor(size)")
        kotlin.copyArrayType(a, result)
        size = 0
        for (i in args.indices) {
            val
arr = args[i].asDynamic()
            for (j in 0 until arr.length) {
                result[size++] = arr[j]
            }
        }
        return result
    }
}

@JsName("booleanArrayOf")
internal fun booleanArrayOf() =
withType("BooleanArray", js("[].slice.call(arguments)")
)

@JsName("charArrayOf")
internal fun
charArrayOf() = withType("CharArray", js("new
Uint16Array(arguments)")
)

@JsName("longArrayOf")
internal fun longArrayOf() =
withType("LongArray",
js("[].slice.call(arguments)")
)

@JsName("withType")
@kotlin.internal.InlineOnly
internal inline fun
withType(type:
String, array: dynamic): dynamic {
    array.`$type$` = type
    return array
}

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Apache 2.0 license that can be found in the license/LICENSE.txt file.
*/
package kotlin.js
/** Function
corresponding to JavaScript's `typeof` operator
*/
@kotlin.internal.InlineOnly
@Suppress("UNUSED_PARAMETER")
public inline fun jsTypeOf(a: Any?):
String = js("typeof a")
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contributors.
Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.
*/
@file:Suppress("UNUSED_PARAMETER",

```

```

\["NOTHING_TO_INLINE"]\n\npackage kotlin\n\n/**\n * Returns an empty array of the specified type [T].\n *\npublic inline fun <T> emptyArray(): Array<T> = js("[ ]")\n\n@library\npublic fun <T> arrayOf(vararg elements: T): Array<T> = definedExternally\n\n@library\npublic fun doubleArrayOf(vararg elements: Double): DoubleArray = definedExternally\n\n@library\npublic fun floatArrayOf(vararg elements: Float): FloatArray = definedExternally\n\n@library\npublic fun longArrayOf(vararg elements: Long): LongArray = definedExternally\n\n@library\npublic fun intArrayOf(vararg elements: Int): IntArray = definedExternally\n\n@library\npublic fun charArrayOf(vararg elements: Char): CharArray = definedExternally\n\n@library\npublic fun shortArrayOf(vararg elements: Short): ShortArray = definedExternally\n\n@library\npublic fun byteArrayOf(vararg elements: Byte): ByteArray = definedExternally\n\n@library\npublic fun booleanArrayOf(vararg elements: Boolean): BooleanArray = definedExternally\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n *\npublic actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n *\n * The [mode] parameter is ignored.\n *\npublic actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n *\n * The [lock] parameter is ignored.\n *\npublic actual fun <T> lazy(lock: Any?, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n\ninternal fun fillFrom(src: dynamic, dst: dynamic): dynamic {\n    val srcLen: Int = src.length\n    val dstLen: Int = dst.length\n    var index: Int = 0\n    while (index < srcLen && index < dstLen) dst[index] = src[index++]\n    return dst\n}\n\n\ninternal fun arrayCopyResize(source: dynamic, newSize: Int, defaultValue: Any?): dynamic {\n    val result = source.slice(0, newSize)\n    copyArrayType(source, result)\n    var index: Int = source.length\n    if (newSize > index) {\n        result.length = newSize\n        while (index < newSize) result[index++] = defaultValue\n    }\n    return result\n}\n\n\ninternal fun <T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic {\n    val result = array.slice()\n    result.length += collection.size\n    copyArrayType(array, result)\n    var index: Int = array.length\n    for (element in collection) result[index++] = element\n    return result\n}\n\n\ninternal fun <T> fillFromCollection(dst: dynamic, startIndex: Int, collection: Collection<T>): dynamic {\n    var index = startIndex\n    for (element in collection) dst[index++] = element\n    return dst\n}\n\n\ninternal inline fun copyArrayType(from: dynamic, to: dynamic) {\n    if (from.`$type$` !== undefined) {\n        to.`$type$` = from.`$type$`\n    }\n}\n\n\ninternal inline fun jsIsType(obj: dynamic, jsClass: dynamic) = js("Kotlin").isType(obj, jsClass), /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\npackage kotlin\n\n/**\n * Creates a Char with the specified [code].\n *\n * @sample samples.text.Chars.charFromCode\n *\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun Char(code: UShort): Char {\n    return code.toInt().toChar()\n}\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\npackage kotlin.coroutines\n\nimport kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@SinceKotlin("1.3")\n@JsName("CoroutineImpl")\ninternal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?> {\n    protected var state = 0\n    protected var exceptionState = 0\n    protected var result: Any? = null\n    protected var exception: Throwable? = null\n    protected var finallyPath: Array<Int>? = null\n\n    public override val context: CoroutineContext = resultContinuation.context\n    private var intercepted_: Continuation<Any?>? = null\n\n    public fun intercepted(): Continuation<Any?> =\n        intercepted_ ?: (context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)\n    .also { intercepted_ = it }\n\n    override fun resumeWith(result: Result<Any?>) {\n        var current = this\n        var currentResult: Any? = result.getOrNull()\n        var currentException: Throwable? = result.exceptionOrNull()\n        // This loop unrolls

```



```

recursion in current.resumeWith(param) to make saner and shorter stack traces on resume\n    while (true) {\n
    with(current) {\n        val completion = resultContinuation\n        // Set result and exception fields in
the current continuation\n        if (currentException
== null) {\n            this.result = currentResult\n        } else {\n            state = exceptionState\n            exception = currentException\n        }\n        try {\n            val outcome = doResume()\n            if (outcome === COROUTINE_SUSPENDED) return\n            currentResult = outcome\n        }\n        currentException = null\n    } catch (exception: dynamic) { // Catch all exceptions\n        currentResult = null\n        currentException = exception.unsafeCast<Throwable>()\n    }\n    releaseIntercepted() // this state machine instance is terminating\n    if (completion is CoroutineImpl) {\n        // unrolling recursion via loop\n        current = completion\n    } else {\n        // top-
level completion reached -- invoke and return\n        currentException?.let
{\n            completion.resumeWithException(it)\n        } ?: completion.resume(currentResult)\n    }\n    return\n}\n}\n}\n}\n\n private fun releaseIntercepted() {\n    val intercepted =
intercepted_ \n    if (intercepted != null && intercepted !== this) {\n        context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)\n    }\n    this.intercepted_ =
CompletedContinuation // just in case\n}\n\n protected abstract fun doResume(): Any?\n}\n\ninternal object
CompletedContinuation : Continuation<Any?> {\n    override val context: CoroutineContext\n        get() =
error("This continuation is already complete")\n    override fun resumeWith(result: Result<Any?>) {\n
error("This continuation is already complete")\n    }\n    override fun toString(): String = "This continuation is
already complete"\n}\n\n"/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\n@file:Suppress("UNCHECKED_CAST",
"RedundantVisibilityModifier")\n\npackage kotlin\n\nimport kotlin.contracts.*\nimport
kotlin.internal.InlineOnly\nimport kotlin.jvm.JvmField\nimport kotlin.jvm.JvmInline\nimport
kotlin.jvm.JvmName\n\n/**\n * A discriminated union that encapsulates a successful outcome with a value of type
[T]\n * or a failure with an arbitrary [Throwable] exception.\n */\n\n@SinceKotlin("1.3")\n@JvmInline\npublic
value class Result<out T> @PublishedApi internal constructor(\n    @PublishedApi\n    internal val value: Any?\n) :
Serializable {\n    // discovery\n    /**\n     * Returns `true` if this instance represents a successful outcome.\n     *
In this case [isFailure] returns `false`.\n     */\n    public val isSuccess: Boolean\n        get() = value !is Failure\n\n    /**\n     * Returns
`true` if this instance represents a failed outcome.\n     * In this case [isSuccess] returns `false`.\n     */\n    public val
isFailure: Boolean\n        get() = value is Failure\n\n    // value & exception retrieval\n    /**\n     * Returns the
encapsulated value if this instance represents [success][Result.isSuccess] or `null`\n     * if it is
[failure][Result.isFailure].\n     */\n    * This function is a shorthand for `getOrElse { null }` (see [getOrElse]) or\n
* `fold(onSuccess = { it }, onFailure = { null })` (see [fold]).\n     */\n    @InlineOnly\n    public inline fun
getOrNull(): T? =\n        when {\n            isFailure -> null\n            else -> value as T\n        }\n\n    /**\n     *
Returns the encapsulated [Throwable] exception if this instance represents [failure][isFailure] or `null`\n     * if it is
[success][isSuccess].\n     */\n    * This function is a shorthand for `fold(onSuccess = { null }, onFailure = { it })`
(see [fold]).\n     */\n    public fun exceptionOrNull():
Throwable? =\n        when (value) {\n            is Failure -> value.exception\n            else -> null\n        }\n\n    /**\n     *
Returns a string `Success(v)` if this instance represents [success][Result.isSuccess]\n     * where `v` is a string
representation of the value or a string `Failure(x)` if\n     * it is [failure][isFailure] where `x` is a string
representation of the exception.\n     */\n    public override fun toString(): String =\n        when (value) {\n            is
Failure -> value.toString() // "Failure($exception)"
            else -> "Success($value)"
        }\n\n    // companion
with constructors\n    /**\n     * Companion object for [Result] class that contains its constructor functions\n     *
[success] and [failure].\n     */\n    public companion object {\n        /**\n         * Returns an instance that
encapsulates the given [value] as successful value.\n         */\n        @Suppress("INAPPLICABLE_JVM_NAME")\n        @InlineOnly\n

```



the encapsulated value\n \* if this instance represents [success][Result.isSuccess] or the\n \* original encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n \* Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n \* See [mapCatching] for an alternative that encapsulates exceptions.\n \*  
`@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T> Result<T>.map(transform: (value: T) -> R): Result<R> {\n contract {\n callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n }\n return when {\n isSuccess -> Result.success(transform(value as T))\n else -> Result(value)\n }\n}\n\n`\n \* Returns the encapsulated result of the given [transform] function applied to the encapsulated value\n \* if this instance represents [success][Result.isSuccess] or the\n \* original encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n \* This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n \* See [map] for an alternative that rethrows exceptions from `transform` function.\n \*  
`@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {\n return when {\n isSuccess -> runCatching { transform(value as T) }\n else -> Result(value)\n }\n}\n\n`\n \* Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n \* if this instance represents [failure][Result.isFailure] or the\n \* original encapsulated value if it is [success][Result.isSuccess].\n \* Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n \* See [recoverCatching] for an alternative that encapsulates exceptions.\n \*  
`@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {\n contract {\n callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n }\n return when (val exception = exceptionOrNull()) {\n null -> this\n else -> Result.success(transform(exception))\n }\n}\n\n`\n \* Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n \* if this instance represents [failure][Result.isFailure] or the\n \* original encapsulated value if it is [success][Result.isSuccess].\n \* This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n \* See [recover] for an alternative that rethrows exceptions.\n \*  
`@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.recoverCatching(transform: (exception: Throwable) -> R): Result<R> {\n return when (val exception = exceptionOrNull()) {\n null -> this\n else -> runCatching { transform(exception) }\n }\n}\n\n`\n \* Performs the given [action] on the encapsulated [Throwable] exception if this instance represents [failure][Result.isFailure].\n \* Returns the original `Result` unchanged.\n \*  
`@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {\n contract {\n callsInPlace(action, InvocationKind.AT_MOST_ONCE)\n }\n exceptionOrNull()?.let { action(it) }\n return this\n}\n\n`\n \* Performs the given [action] on the encapsulated value if this instance represents [success][Result.isSuccess].\n \* Returns the original `Result` unchanged.\n \*  
`@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit): Result<T> {\n contract {\n callsInPlace(action, InvocationKind.AT_MOST_ONCE)\n }\n if (isSuccess) action(value as T)\n return this\n}\n\n`\n \* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*  
`@npackage kotlin.coroutines\n\nimport kotlin.contracts.*\nimport kotlin.coroutines.intrinsics.*\nimport kotlin.internal.InlineOnly\n\n`\n \* Interface representing a continuation after a suspension point that returns a value of type `T`.\n \*  
`@SinceKotlin("1.3")\npublic interface Continuation<in T> {\n /**\n * The context of the coroutine that corresponds to this continuation.\n *  
public val context: CoroutineContext\n\n /**\n * Resumes the execution of the corresponding coroutine passing a successful or failed [result] as the\n * return value of the last suspension point.\n *  
public fun resumeWith(result: Result<T>)\n}\n\n`\n \* Classes and interfaces marked with this annotation are restricted when used as receivers for extension\n \* `suspend` functions. These `suspend` extensions can only invoke other member or extension

```

`suspend` functions on this particular receiver and are restricted from calling arbitrary suspension functions.
*/@SinceKotlin("1.3")@Target(AnnotationTarget.CLASS)@Retention(AnnotationRetention.BINARY)
public annotation class RestrictsSuspension
*/
*/ Resumes the execution of the corresponding coroutine passing [value] as the return value of the last suspension point.
*/@SinceKotlin("1.3")@InlineOnly
public inline fun <T> Continuation<T>.resume(value: T): Unit = resumeWith(Result.success(value))
*/
*/ Resumes the execution of the corresponding coroutine so that the [exception] is re-thrown right after the last suspension point.
*/@SinceKotlin("1.3")@InlineOnly
public inline fun <T> Continuation<T>.resumeWithException(exception: Throwable): Unit = resumeWith(Result.failure(exception))
*/
*/ Creates a [Continuation] instance with the given [context] and implementation of [resumeWith] method.
*/@SinceKotlin("1.3")@InlineOnly
public inline fun <T> Continuation(context: CoroutineContext, crossinline resumeWith: (Result<T>) -> Unit): Continuation<T> = object : Continuation<T> {
    override val context: CoroutineContext = context
    override fun resumeWith(result: Result<T>) = resumeWith(result)
}
*/
*/ Creates a coroutine without a receiver and with result type [T].
*/ This function creates a new, fresh instance of suspendable computation every time it is invoked.
*/ To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.
*/ The [completion] continuation is invoked when the coroutine completes with a result or an exception.
*/ Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].
*/@SinceKotlin("1.3")@Suppress("UNCHECKED_CAST")
public fun <T> (suspend () -> T).createCoroutine(completion: Continuation<T>): Continuation<Unit> = SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)
*/
*/ Creates a coroutine with receiver type [R] and result type [T].
*/ This function creates a new, fresh instance of suspendable computation every time it is invoked.
*/ To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.
*/ The [completion] continuation is invoked when the coroutine completes with a result or an exception.
*/ Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].
*/@SinceKotlin("1.3")@Suppress("UNCHECKED_CAST")
public fun <R, T> (suspend R.() -> T).createCoroutine(receiver: R, completion: Continuation<T>): Continuation<Unit> = SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(), COROUTINE_SUSPENDED)
*/
*/ Starts a coroutine without a receiver and with result type [T].
*/ This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.
*/ The [completion] continuation is invoked when the coroutine completes with a result or an exception.
*/@SinceKotlin("1.3")@Suppress("UNCHECKED_CAST")
public fun <T> (suspend () -> T).startCoroutine(completion: Continuation<T>) {
    createCoroutineUnintercepted(completion).intercepted().resume(Unit)
}
*/
*/ Starts a coroutine with receiver type [R] and result type [T].
*/ This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.
*/ The [completion] continuation is invoked when the coroutine completes with a result or an exception.
*/@SinceKotlin("1.3")@Suppress("UNCHECKED_CAST")
public fun <R, T> (suspend R.() -> T).startCoroutine(receiver: R, completion: Continuation<T>) {
    createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)
}
*/
*/ Obtains the current continuation instance inside suspend functions and suspends the currently running coroutine.
*/ In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously in the same stack-frame where the suspension function is run or asynchronously later in the same thread or from a different thread of execution. Subsequent invocation of any resume function will produce an [IllegalStateException].
*/@SinceKotlin("1.3")@InlineOnly
public suspend inline fun <T> suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T {
    contract { callsInPlace(block, InvocationKind.EXACTLY_ONCE) }
    return suspendCoroutineUninterceptedOrReturn { c: Continuation<T> -> val safe = SafeContinuation(c.intercepted())
        block(safe)
        safe.getOrThrow()
}
}
*/

```

Returns the context of the current coroutine.

```
*\n@SinceKotlin("1.3")\n@Suppress("WRONG_MODIFIER_TARGET")\n@InlineOnly\npublic  
suspend inline val coroutineContext: CoroutineContext\n    get() {\n        throw  
        NotImplementedError("Implemented as intrinsic")\n    }\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and  
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that  
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines.intrinsics\n\nimport  
kotlin.coroutines.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Starts an unintercepted coroutine without a receiver  
and with result type [T] and executes it until its first suspension.\n * Returns the result of the coroutine or throws its  
exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends.\n * In the latter case, the  
[completion] continuation is invoked when the coroutine completes with a result or an exception.\n */\n * The  
coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor]  
that might\n * be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a  
proper invocation\n * context is established.\n */\n * This function is designed to be used from inside of  
[suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\n * coroutine using a reference  
to the suspending function.\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic actual inline fun <T> (suspend () ->  
T).startCoroutineUninterceptedOrReturn(\n    completion: Continuation<T>): Any? = this.asDynamic().if (this !is  
CoroutineImpl) createSimpleCoroutineFromSuspendFunction(completion) else completion, false)\n\n/**\n * Starts  
an unintercepted coroutine with receiver type [R] and result type [T] and executes it until its first suspension.\n * Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if  
it suspends.\n * In the latter case, the [completion] continuation is invoked when the coroutine  
completes with a result or an exception.\n */\n * The coroutine is started directly in the invoker's thread without  
going through the [ContinuationInterceptor] that might\n * be present in the completion's [CoroutineContext]. It is  
the invoker's responsibility to ensure that a proper invocation\n * context is established.\n */\n * This function is  
designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the  
suspended\n * coroutine using a reference to the suspending function.\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic actual inline fun <R, T> (suspend R.() ->  
T).startCoroutineUninterceptedOrReturn(\n    receiver: R,\n    completion: Continuation<T>): Any? =  
this.asDynamic().(\n    receiver, if (this !is CoroutineImpl)  
createSimpleCoroutineFromSuspendFunction(completion) else completion, false)\n\n@InlineOnly\ninternal  
actual inline fun <R, P, T> (suspend R.(P) -> T).startCoroutineUninterceptedOrReturn(\n    receiver: R,\n    param:  
P,\n    completion: Continuation<T>): Any? = this.asDynamic().(\n    receiver, param, if (this !is CoroutineImpl)  
createSimpleCoroutineFromSuspendFunction(completion) else completion, false)\n\n/**\n * Creates  
unintercepted coroutine without receiver and with result type [T].\n * This function creates a new, fresh instance of  
suspendable computation every time it is invoked.\n */\n * To start executing the created coroutine, invoke  
`resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when  
coroutine completes with result or exception.\n */\n * This function returns unintercepted continuation.\n *  
Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the\n * [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].\n * It is the invoker's  
responsibility to ensure that a proper invocation context is established.\n * Note that [completion] of this function  
may get invoked in an arbitrary context.\n */\n * [Continuation.intercepted] can be used to acquire the intercepted  
continuation.\n * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of\n * both the  
coroutine and [completion] happens in the invocation context established by\n * [ContinuationInterceptor].\n */\n * Repeated invocation of any resume function on the resulting continuation corrupts the\n * state machine of the  
coroutine and may result in arbitrary behaviour or exception.\n */\n@SinceKotlin("1.3")\npublic actual fun <T>  
(suspend () -> T).createCoroutineUnintercepted(\n    completion: Continuation<T>): Continuation<Unit> =\n    //  
Kotlin/JS suspend lambdas have an extra parameter `suspended`\n    if (this.asDynamic().length == 2) {\n        //  
When `suspended` is true the continuation is created, but not executed\n        this.asDynamic()(completion, true)\n    } else {\n        createCoroutineFromSuspendFunction(completion)\n    }
```

```

    this.asDynamic()(completion)\n    }\n }\n\n/**\n * Creates unintercepted coroutine with receiver type [R]
and result type [T].\n * This function creates a new, fresh instance of suspendable computation every time it is
invoked.\n *\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation]
instance.\n *\n * The [completion] continuation is invoked when coroutine completes with result or exception.\n *\n * This function returns unintercepted continuation.\n *\n * Invocation of `resume(Unit)` starts coroutine immediately in
the invoker's call stack without going through the\n * [ContinuationInterceptor] that might be present in the
completion's [CoroutineContext].\n *\n * It is the invoker's responsibility to ensure that a proper invocation context is
established.\n *\n * Note that [completion] of this function may get invoked in an arbitrary context.\n *\n *\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\n *\n * Invocation
of `resume(Unit)` on intercepted continuation guarantees that execution of\n * both the coroutine and [completion]
happens in the invocation context established by\n * [ContinuationInterceptor].\n *\n *\n * Repeated invocation of any
resume function on the resulting continuation corrupts the\n * state machine of the coroutine and may result in
arbitrary behaviour or exception.\n *\n\n@SinceKotlin("1.3")\npublic actual fun <R, T> (suspend R.() ->
T).createCoroutineUnintercepted(\n receiver: R,\n completion: Continuation<T>)\n): Continuation<Unit> =\n //
Kotlin/JS suspend lambdas have an extra parameter `suspended`\n if (this.asDynamic().length == 3) {\n //
When `suspended` is true the continuation is created, but not executed\n this.asDynamic()(receiver, completion,
true)\n } else {\n createCoroutineFromSuspendFunction(completion) {\n this.asDynamic()(receiver,
completion)\n }\n }\n\n/**\n * Intercepts this continuation with [ContinuationInterceptor].\n
*\n * This function shall be used on the immediate result of [createCoroutineUnintercepted] or
[suspendCoroutineUninterceptedOrReturn],\n * in which case it checks for [ContinuationInterceptor] in the
continuation's [context][Continuation.context],\n * invokes [ContinuationInterceptor.interceptContinuation],
caches
and returns the result.\n *\n * If this function is invoked on other [Continuation] instances it returns `this`
continuation unchanged.\n *\n\n@SinceKotlin("1.3")\npublic actual fun <T> Continuation<T>.intercepted():
Continuation<T> =\n (this as? CoroutineImpl)?.intercepted() ?: this\n\n\nprivate inline fun <T>
createCoroutineFromSuspendFunction(\n completion: Continuation<T>,\n crossinline block: () -> Any?\n):
Continuation<Unit> {\n @Suppress("UNCHECKED_CAST")\n return object : CoroutineImpl(completion as
Continuation<Any?>) {\n override fun doResume(): Any? {\n exception?.let { throw it }\n return
block()\n
}\n }\n}\n\n@PublishedApi\ninternal fun <T> createSimpleCoroutineFromSuspendFunction(\n completion:
Continuation<T>)\n): CoroutineImpl = object : CoroutineImpl(completion as Continuation<Any?>) {\n override
fun doResume(): Any? {\n if (exception != null) throw exception as Throwable\n return result\n
}\n }\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.js\n// Mirrors signature from JS IR BE\n// Used for
js.translator/testData/box/number/mulInt32.kt\n@library\n@jsName("imulEmulated")\n@Suppress("UNUSED_P
ARAMETER")\ninternal fun imul(x: Int, y: Int): Int =
definedExternally\n\n@Suppress("NOTHING_TO_INLINE")\ninternal inline fun isArrayish(o: dynamic) =
js("Kotlin").isArrayish(o)\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n
*\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin\n\n// NOTE: Do not author your exceptions as they are written in this file, instead use this
template:\n\n/*\n\npublic open class MyException : Exception {\n constructor() : super()\n constructor(message:
String?) : super(message)\n constructor(message: String?, cause: Throwable?) : super(message, cause)\n
constructor(cause: Throwable?) : super(cause)\n}\n\n\n// TODO: remove primary constructors, make all
secondary KT-22055\n\n@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")\npublic actual open class Error
actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\n actual
constructor() : this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual
constructor(cause: Throwable?) : this(undefine

```

```

cause)\n}\n\n@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")\npublic actual
open class Exception actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null)
{\n  actual constructor() : this(null, null)\n  actual constructor(message: String?) : this(message, null)\n  actual
constructor(cause: Throwable?) : this(undefiend, cause)\n}\n\npublic actual open class RuntimeException actual
constructor(message: String?, cause: Throwable?) : Exception(message, cause) {\n  actual constructor() : this(null,
null)\n  actual constructor(message: String?) : this(message, null)\n  actual constructor(cause: Throwable?) :
this(undefiend, cause)\n}\n\npublic actual open class IllegalArgumentException actual constructor(message:
String?, cause: Throwable?) : RuntimeException(message, cause) {\n  actual constructor() : this(null, null)\n
actual constructor(message: String?) : this(message, null)\n  actual constructor(cause: Throwable?) :
this(undefiend, cause)\n}\n\npublic actual open class IllegalStateException actual constructor(message:
String?, cause: Throwable?) : RuntimeException(message, cause) {\n  actual constructor() : this(null, null)\n
actual constructor(message: String?) : this(message, null)\n  actual constructor(cause: Throwable?) :
this(undefiend, cause)\n}\n\npublic actual open class IndexOutOfBoundsException actual constructor(message:
String?) : RuntimeException(message) {\n  actual constructor() : this(null)\n}\n\npublic actual open class
ConcurrentModificationException actual constructor(message: String?, cause: Throwable?) :
RuntimeException(message, cause) {\n  actual constructor() : this(null, null)\n  actual constructor(message:
String?) : this(message, null)\n  actual constructor(cause: Throwable?) : this(undefiend, cause)\n}\n\npublic actual
open class UnsupportedOperationException actual constructor(message: String?, cause: Throwable?) :
RuntimeException(message, cause) {\n  actual constructor() : this(null, null)\n  actual constructor(message:
String?) : this(message,
null)\n  actual constructor(cause: Throwable?) : this(undefiend, cause)\n}\n\n\npublic actual open class
NumberFormatException actual constructor(message: String?) : IllegalArgumentException(message) {\n  actual
constructor() : this(null)\n}\n\n\npublic actual open class NullPointerException actual constructor(message: String?)
: RuntimeException(message) {\n  actual constructor() : this(null)\n}\n\n\npublic actual open class
ClassCastException actual constructor(message: String?) : RuntimeException(message) {\n  actual constructor() :
this(null)\n}\n\n\npublic actual open class AssertionError\n@SinceKotlin("1.4")\nactual constructor(message:
String?, cause: Throwable?) : Error(message, cause) {\n  actual constructor() : this(null)\n  constructor(message:
String?) : this(message, null)\n  actual constructor(message: Any?) : this(message.toString(), message as?
Throwable)\n}\n\n\npublic actual open class NoSuchElementException actual constructor(message: String?) :
RuntimeException(message)
{\n  actual constructor() : this(null)\n}\n\n\n@SinceKotlin("1.3")\n\npublic actual open class ArithmeticException
actual constructor(message: String?) : RuntimeException(message) {\n  actual constructor() :
this(null)\n}\n\n\npublic actual open class NoWhenBranchMatchedException actual constructor(message: String?,
cause: Throwable?) : RuntimeException(message, cause) {\n  actual constructor() : this(null, null)\n  actual
constructor(message: String?) : this(message, null)\n  actual constructor(cause: Throwable?) : this(undefiend,
cause)\n}\n\n\npublic actual open class UninitializedPropertyAccessException actual constructor(message: String?,
cause: Throwable?) : RuntimeException(message, cause) {\n  actual constructor() : this(null, null)\n  actual
constructor(message: String?) : this(message, null)\n  actual constructor(cause: Throwable?) : this(undefiend,
cause)\n}\n\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o. Use of this source code is governed by
the Apache 2.0 license\n * that can be found in the license/LICENSE.txt file.\n
*\n\n@file:Suppress("UNUSED_PARAMETER")\n\npackage kotlin.js\n\n@kotlin.internal.InlineOnly\n\ninternal
inline fun jsDeleteProperty(obj: Any, property: Any) {\n  js("delete
obj[property]")\n}\n\n\n@kotlin.internal.InlineOnly\n\ninternal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =\n
js("lhs | rhs").unsafeCast<Int>()", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\npackage kotlin.math\n\n/**\n * Returns this value with the sign bit same as of the
[sign] value.\n * If [sign] is `NaN` the sign of the result is undefined.\n *\n\n@SinceKotlin("1.2")\n\npublic actual
fun Double.withSign(sign: Double): Double {\n  val thisSignBit =

```

```

js("Kotlin").doubleSignBit(this).unsafeCast<Int>()\n  val newSignBit =
js("Kotlin").doubleSignBit(sign).unsafeCast<Int>()\n
  return if (thisSignBit == newSignBit) this else -this}\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\npackage kotlin\n\n\n**\n * Returns a bit representation of the
specified floating-point value as [Long]\n * according to the IEEE 754 floating-point "double format" bit layout.\n
*\n\n@SinceKotlin("1.2")\n@library("doubleToBits")\npublic actual fun Double.toBits(): Long =
definedExternally\n\n**\n * Returns a bit representation of the specified floating-point value as [Long]\n *
according to the IEEE 754 floating-point "double format" bit layout,\n * preserving `NaN` values exact layout.\n
*\n\n@SinceKotlin("1.2")\n@library("doubleToRawBits")\npublic actual fun Double.toRawBits(): Long =
definedExternally\n\n**\n * Returns the [Double] value corresponding to a given bit
representation.\n *\n\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual inline fun
Double.Companion.fromBits(bits: Long): Double =
js("Kotlin").doubleFromBits(bits).unsafeCast<Double>()\n\n**\n * Returns a bit representation of the specified
floating-point value as [Int]\n * according to the IEEE 754 floating-point "single format" bit layout.\n *\n * Note
that in Kotlin/JS [Float] range is wider than "single format" bit layout can represent,\n * so some [Float] values
may overflow, underflow or loose their accuracy after conversion to bits and back.\n
*\n\n@SinceKotlin("1.2")\n@library("floatToBits")\npublic actual fun Float.toBits(): Int =
definedExternally\n\n**\n * Returns a bit representation of the specified floating-point value as [Int]\n * according
to the IEEE 754 floating-point "single format" bit layout,\n * preserving `NaN` values exact layout.\n *\n * Note
that in Kotlin/JS [Float] range is wider than "single format" bit layout can represent,\n
* so some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n
*\n\n@SinceKotlin("1.2")\n@library("floatToRawBits")\npublic actual fun Float.toRawBits(): Int =
definedExternally\n\n**\n * Returns the [Float] value corresponding to a given bit representation.\n
*\n\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual inline fun Float.Companion.fromBits(bits:
Int): Float =
js("Kotlin").floatFromBits(bits).unsafeCast<Float>()\n\n\n@Suppress("NOTHING_TO_INLINE")\ninternal
inline fun Long(low: Int, high: Int) = js("Kotlin").Long.fromBits(low, high).unsafeCast<Long>()\ninternal inline
val Long.low: Int get() = this.asDynamic().getLowBits().unsafeCast<Int>()\ninternal inline val Long.high: Int get()
= this.asDynamic().getHighBits().unsafeCast<Int>()\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found
in the license/LICENSE.txt file.\n *\n\nimport kotlin.reflect.KClass\n\n@PublishedApi\ninternal fun <T :
Annotation> KClass<*>.findAssociatedObject(@Suppress("UNUSED_PARAMETER") annotationClass:
KClass<T>): Any? {\n  // This API is not supported in js-v1. Return `null` to be source-compatible with js-ir.\n
return null}\n}\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.text\n\n\n**\n * Returns a string representation of this [Long] value in the specified [radix].\n
*\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n
*\n\n@SinceKotlin("1.2")\npublic actual fun Long.toString(radix: Int): String =
asDynamic().toString(checkRadix(radix))\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.js\n\n@PublishedApi\n@Suppress("NOTHING_TO_INLINE")\n@JsPolyfill("\n\nnif
(typeof Array.prototype.fill === "undefined") {\n  // Polyfill from https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill\n  Object.defineProperty(Array.prototype,
'fill', {\n    value: function (value) {\n      // Steps 1-2.\n      if (this == null) {\n        throw new
TypeError('this is null or not defined');\n      }\n      var O = Object(this);\n      // Steps 3-5.\n

```







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result[index++] = int\n        int = 0\n        shift = 0\n    } else {\n        shift += 5\n    }\n }\n return
result\n}\n", /*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the
GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport
kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Reverses
elements in the list in-place.\n */\npublic actual fun <T> MutableList<T>.reverse(): Unit {\n    val midPoint = (size
/ 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp =
this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n
    }\n}\n}\n", /*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n//
See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n// 37 ranges totally\nprivate object Digit
{\n    internal val rangeStart = arrayOf(\n        0x0030, 0x0660, 0x06f0, 0x07c0, 0x0966, 0x09e6, 0x0a66,
0x0ae6, 0x0b66, 0x0be6, 0x0c66, 0x0ce6, 0x0d66, 0x0de6, 0x0e50, 0x0ed0, 0x0f20, 0x1040,
0x1090, 0x17e0, \n        0x1810, 0x1946, 0x19d0, 0x1a80, 0x1a90, 0x1b50, 0x1bb0, 0x1c40, 0x1c50, 0xa620,
0xa8d0, 0xa900, 0xa9d0, 0xa9f0, 0xaa50, 0xabf0, 0xff10, \n    )\n}\n\n/**\n * Returns the index of the largest
element in [array] smaller or equal to the specified [needle],\n * or -1 if [needle] is smaller than the smallest element
in [array].\n */\ninternal fun binarySearchRange(array: IntArray, needle: Int): Int {\n    var bottom = 0\n    var top =
array.size - 1\n    var middle = -1\n    var value = 0\n    while (bottom <= top) {\n        middle = (bottom + top) / 2\n
        value = array[middle]\n        if (needle > value)\n            bottom = middle + 1\n        else if (needle == value)\n
            return middle\n        else\n            top = middle - 1\n    }\n    return middle - (if (needle < value) 1 else
0)\n}\n\n/**\n * Returns an integer from 0..9 indicating the digit this character represents,\n * or -1 if this character
is not a digit.\n */\ninternal fun
Char.digitToIntImpl(): Int {\n    val ch = this.code\n    val index = binarySearchRange(Digit.rangeStart, ch)\n    val
diff = ch - Digit.rangeStart[index]\n    return if (diff < 10) diff else -1\n}\n\n/**\n * Returns `true` if this character
is a digit.\n */\ninternal fun Char.isDigitImpl(): Boolean {\n    return digitToIntImpl() >= 0\n}\n}\n", /*\n * Copyright
2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/\n//
NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n// 222 ranges totally\nprivate object Letter {\n
val decodedRangeStart: IntArray\n    val decodedRangeLength: IntArray\n    val decodedRangeCategory: IntArray\n
\n    init {\n        val toBase64 =
\n"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/"\n
        val fromBase64 = IntArray(128)\n        for (i in toBase64.indices) {\n            fromBase64[toBase64[i].code] =
i\n        }\n        // rangeStartDiff.length = 356\n        val rangeStartDiff =
\n"hCgBpCQGYHZH5BRpBPPPPPRMP5BPPICPP6BkEPPPPcXPzBvBrB3BOiDoBHwD+E3DauCnFmBmB2D
6E1BIBTiBmBIBP5BhBiBrBvBjBqBnBPRtBiCmCtBIB0BmB5BiB7BmBgEmChBZgCoEoGVpBSfRhBPqKQ2B
wBYoFgB4CJuTiEvBuCuDrF5DgEgFIJ1DgFmBQtBsBRGsB+BPiBID1EIJdPRPPPPPPPPPGQSQS/DxENVNU+
B9zCwBwBPPCkDPNnBPqDYY1R8B7FkFgTgwGgwUwmBgKwBuBScmEP/BPPPPPRpB8B7F1B/ErBqC6B7B
iBmBfQsBUwCw/KwqIwLwETPcPjQgJxFgBIBsD"\n        val diff = decodeVarLenBase64(rangeStartDiff,
fromBase64, 222)\n        val start = IntArray(diff.size)\n        for (i in diff.indices) {\n            if (i == 0) start[i] =
diff[i]\n            else start[i] = start[i - 1] + diff[i]\n        }\n        decodedRangeStart = start\n        //
rangeLength.length = 328\n        val rangeLength =
\n"aaMBXHYH5BRpBPPPPPRMP5BPPICPPzBDOOPPcXPzBvBjB3BOhDmBBpB7DoDYxB+EiBP1DoExBkB
QhBekBPmBgBhBctBiBMWOOXhCsBpBkBUV3Ba4BkB0DICgBXgBtD4FSdBfPhBPpKP0BvBXjEQ2CGsT8Dh
BtCqDpFvD1D3E0rD2EkBjRBDObS+B+BPiBIB1EIJdPPPPPPPPPPPGPPMNLsBNPNPKCvBvBPPCkDPBmBPh
DXXgD4B6FzEgDguG9vUtkB9JcuBSckEP/BPPPPPPBPf4FrBjEhBpC3B5BKaWPrBOWck/KsCuLqDHPbPxPsFt

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EaaqDL\`n
    decodedRangeLength = decodeVarLenBase64(rangeLength, fromBase64, 222)\n    \n    //
rangeCategory.length = 959\n    val rangeCategory =
`GFjgggUHGFFZZMzpz5qB6s6020B60ptltB6smt2sB60mz22B1+vv+8BZZ5s2850BW5q1ymtB506smzBF3q1
q1qB1q1q1+Bgii4wDTm74g3KiggxqM60q1q1Bq1o1q1BF1qlqrBZ2q5wprBGFZWWZGHFsjiioLowgmOowjkw
CkgoiIk7ligGogioBkwkiYkzj2oNoi+sbkwj04DghhQ8wgiYkgoioDsgnkWc4gikQ//v+85BkwvoIsgoyI4yguI0whiw
Eowri4CoghsJowgqYowgm4DkwgsY/nwnzPowhmYkg6wI8yggZswikwHxgmIoxgqYkkgk4DkxgmIkgoioBsgsso
BgzgyI8g9gL8g9ki0wgwJoxgkoC0wgioFkw/wI0w53iF4gioYowjmgBHGq1qkgwBF1q1q8qBHwghuIwghyKk0go
QkwgoQk3goQHGFHkyg0pBgxj6IoinkxDswno7Ikwhz9Bo0gioB8z48Rwli0xN0mpjoX8w78pDwltoqKHFGGwwg
sIHFH3q1q16BFHWFZ1q10q1B2qlwq1B1q10q1B2q1yq1B6q1gq1Biq1qhxBir1qp1Bqt1q1qB1g1q1+B//3q16B//q
1qBH/qlq9Bholqq9B1i00a1q10qD1op1HkwmigEigy6Cptogq1Bixo1kDq7/j00B2qgoBWGFm1lz50B6s5q1+BG
WhggzhwBFFhgk4//Bo2jigE8wguI8wguI8wgugUog1qoB4qjmIwwi2KkgYHHH4lBgiFWkgIWoghssMmz5smrBZ
3q1y50B5sm7gzBtz1smzB5smz50BqzqtzmzB5sgzqzBF2/9//5BowgoIwmnkzPkwgk4C8ys65BkgoqI0wgy6FghquZo
2giY0ghiIsgH24B4ghsQ8QF/v1q1OFs0O8iCHHF1qggz/B8wg6Iznv+//B08QgohsJK0QGFk7hsQ4gB`\`n
    decodedRangeCategory = decodeVarLenBase64(rangeCategory, fromBase64, 222)\n    \n}\n\n`*` Returns
`true` if this character is a letter.\n `*` internal fun Char.isLetterImpl(): Boolean {\n    return getLetterType() !=
0\n}\n\n`*` Returns `true` if this character is a lower case letter, or it has contributory property
`Other_Lowercase`.\n `*` internal fun Char.isLowercaseImpl(): Boolean {\n    return getLetterType() == 1 ||
code.isOtherLowercase()\n}\n\n`*` Returns `true` if this character is an upper case letter, or it has contributory
property `Other_Uppercase`.\n `*` internal
fun Char.isUppercaseImpl(): Boolean {\n    return getLetterType() == 2 || code.isOtherUppercase()\n}\n\n`*`
Returns\n `*` - `1` if the character is a lower case letter,\n `*` - `2` if the character is an upper case letter,\n `*` - `3` if
the character is a letter but not a lower or upper case letter,\n `*` - `0` otherwise.\n `*` private fun
Char.getLetterType(): Int {\n    val ch = this.code\n    val index = binarySearchRange(Letter.decodedRangeStart,
ch)\n\n    val rangeStart = Letter.decodedRangeStart[index]\n    val rangeEnd = rangeStart +
Letter.decodedRangeLength[index] - 1\n    val code = Letter.decodedRangeCategory[index]\n\n    if (ch > rangeEnd)
{\n    return 0\n    }\n\n    val lastTwoBits = code and 0x3\n    if (lastTwoBits == 0) { // gap pattern\n    var
shift = 2\n    var threshold = rangeStart\n    for (i in 0..1) {\n        threshold += (code shr shift) and 0x7f\n
if (threshold > ch) {\n            return 3\n        }\n        shift += 7\n        threshold += (code shr shift) and 0x7f\n
if (threshold > ch) {\n            return 0\n        }\n        shift += 7\n        }\n    return 3\n    }\n\n    if (code <= 0x7) {\n    return lastTwoBits\n    }\n\n    val distance = (ch - rangeStart)\n    val shift = if (code <= 0x1F) distance % 2 else distance\n    return (code shr (2 *
shift)) and 0x3\n}\n\n`*` Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n `*` Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n `*` package kotlin.text\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the
GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nprivate object
OtherLowercase {\n    internal val otherLowerStart = intArrayOf(\n        0x00aa, 0x00ba, 0x02b0, 0x02c0, 0x02e0,
0x0345, 0x037a, 0x1d2c, 0x1d78, 0x1d9b, 0x2071, 0x207f,
0x2090, 0x2170, 0x24d0, 0x2c7c, 0xa69c, 0xa770, 0xa7f8, 0xab5c, \n    )\n    internal val otherLowerLength =
intArrayOf(\n        1, 1, 9, 2, 5, 1, 1, 63, 1, 37, 1, 1, 13, 16, 26, 2, 2, 1, 2, 4, \n    )\n}\n\ninternal fun
Int.isOtherLowercase(): Boolean {\n    val index = binarySearchRange(OtherLowercase.otherLowerStart, this)\n    return index >= 0 && this < OtherLowercase.otherLowerStart[index] +
OtherLowercase.otherLowerLength[index]\n}\n\n`*` Copyright 2010-2023 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n `*` Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n `*` package kotlin.text\n\n/\n\n// NOTE: THIS FILE IS AUTO-
GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\ninternal fun Int.isOtherUppercase(): Boolean
{\n    return this in 0x2160..0x216f\n        || this in 0x24b6..0x24cf\n}\n\n`*` Copyright 2010-2023 JetBrains

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s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage kotlin.text\n/\n/\n NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: [\nhttps://github.com/JetBrains/kotlin/tree/master/libraries/stdlib](https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib)\n/\n/\n\nimport kotlin.js.\*\n\n/\*\*\n \* Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.\n \* \n \* @sample samples.collections.Collections.Elements.elementAt\n \*/\n\npublic actual fun CharSequence.elementAt(index: Int): Char {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: \$index, length: \$length") }\n}\n\n"/\*\n \* Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage kotlin.text\n/\n/\n NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: [\nhttps://github.com/JetBrains/kotlin/tree/master/libraries/stdlib](https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib)\n/\n/\n\n4 ranges totally\n\ninternal fun Char.titlecaseCharImpl(): Char {\n val code = this.code\n // Letters repeating <Lu, Lt, Ll> sequence and code of the Lt is a multiple of 3, e.g. <\u01c4, \u01c5, \u01c6>\n if (code in 0x01c4..0x01cc || code in 0x01f1..0x01f3) {\n return (3 \* ((code + 1) / 3)).toChar()\n }\n // Lower case letters whose title case mapping equivalent is equal to the original letter\n if (code in 0x10d0..0x10fa || code in 0x10fd..0x10ff) {\n return this\n }\n return uppercaseChar()\n}"/\*\n \* Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage kotlin.collections\n/\n/\n NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: [\nhttps://github.com/JetBrains/kotlin/tree/master/libraries/stdlib](https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib)\n/\n/\n\nimport kotlin.js.\*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \* \n \* @sample samples.collections.Collections.Elements.elementAt\n \*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.elementAt(index: Int): UInt {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: \$index, size: \$size") }\n}\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \* \n \* @sample samples.collections.Collections.Elements.elementAt\n \*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.elementAt(index: Int): ULong {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: \$index, size: \$size") }\n}\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \* \n \* @sample samples.collections.Collections.Elements.elementAt\n \*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.elementAt(index: Int): UByte {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: \$index, size: \$size") }\n}\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \* \n \* @sample samples.collections.Collections.Elements.elementAt\n \*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.elementAt(index: Int): UShort {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: \$index, size: \$size") }\n}\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.asList(): List<UInt> {\n return object : AbstractList<UInt>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UInt): Boolean = this@asList.contains(element)\n override fun get(index: Int): UInt {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: UInt): Int {\n @Suppress("USELESS\_CAST")\n if ((element as Any?) !is UInt) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: UInt): Int {\n @Suppress("USELESS\_CAST")\n if ((element as Any?) !is

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UInt) return -1\n        return this@asList.lastIndexOf(element)\n        }\n    }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.asList(): List<ULong> {\n    return object : AbstractList<ULong>(), RandomAccess {\n        override val size: Int get() = this@asList.size\n        override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun contains(element: ULong): Boolean = this@asList.contains(element)\n        override fun get(index: Int): ULong {\n            AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n        override fun indexOf(element: ULong): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is ULong) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: ULong): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is ULong) return -1\n            return this@asList.lastIndexOf(element)\n        }\n    }\n}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.asList(): List<UByte> {\n    return object : AbstractList<UByte>(), RandomAccess {\n        override val size: Int get() = this@asList.size\n        override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun contains(element: UByte): Boolean = this@asList.contains(element)\n        override fun get(index: Int): UByte {\n            AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n        override fun indexOf(element: UByte): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is UByte) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: UByte): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is UByte) return -1\n            return this@asList.lastIndexOf(element)\n        }\n    }\n}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.asList(): List<UShort> {\n    return object : AbstractList<UShort>(), RandomAccess {\n        override val size: Int get() = this@asList.size\n        override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun contains(element: UShort): Boolean = this@asList.contains(element)\n        override fun get(index: Int): UShort {\n            AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n        override fun indexOf(element: UShort): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is UShort) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: UShort): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is UShort) return -1\n            return this@asList.lastIndexOf(element)\n        }\n    }\n}\n}\n}\n\n"/**\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n// 9 ranges totally\n/**\n * Returns `true` if this character is a whitespace.\n */\n\ninternal fun Char.isWhitespaceImpl(): Boolean {\n    val ch = this.code\n    return ch in 0x0009..0x000d\n        || ch in 0x001c..0x0020\n        || ch == 0x00a0\n        || ch > 0x1000 &&\n        (\n            ch == 0x1680\n            || ch in 0x2000..0x200a\n            || ch == 0x2028\n            || ch == 0x2029\n            || ch == 0x202f\n            || ch == 0x205f\n            || ch == 0x3000\n        )\n}\n\n"/**\n * Copyright 2010-2022\n * JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.contracts.InvocationKind\nimport kotlin.contracts.contract\n\n@SinceKotlin("1.8")\n@ExperimentalStdlibApi\npublic actual interface AutoCloseable {\n    public actual fun close(): Unit\n}\n\n@SinceKotlin("1.8")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic actual inline fun <T : AutoCloseable?, R> T.use(block: (T) -> R): R {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    var exception: Throwable? = null\n    try {\n        return block(this)\n    } catch (e: Throwable) {\n        exception = e\n        throw e\n    } finally {\n        this.closeFinally(exception)\n    }\n}

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}
}
@ExperimentalStdlibApi
@SinceKotlin("1.8")
@PublishedApi
internal fun
AutoCloseable?.closeFinally(cause: Throwable?) = when {
    this
    == null -> {
        cause == null -> close()
        else -> try {
            close()
        } catch (closeException:
        Throwable) {
            cause.addSuppressed(closeException)
        }
    }
}
"/**
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 s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0
 license that can be found in the license/LICENSE.txt file.
 */
package kotlin
public actual fun interface
Comparator<T> {
    @JsName("compare")
    public actual fun compare(a: T, b: T): Int
}
"/**
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 * Use of this source code is governed
  by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package org.w3c.dom
public
external interface ItemArrayLike<out T> {
    val length: Int
    fun item(index: Int): T?
}
/**
 * Returns the
  view of this `ItemArrayLike<T>` collection as `List<T>`
 */
public
fun <T> ItemArrayLike<T>.asList(): List<T> = object : AbstractList<T>() {
    override val size: Int get() =
    this@asList.length
    override fun get(index: Int): T = when (index) {
        in 0..lastIndex ->
        this@asList.item(index).unsafeCast<T>()
        else -> throw IndexOutOfBoundsException("index $index is not in
        range [0..$lastIndex]")
    }
}
"/**
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
 contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the
 license/LICENSE.txt file.
 */
package kotlin.js
import
kotlin.annotation.AnnotationTarget.*
@Target(FUNCTION)
@Deprecated("Use inline extension function with
body using dynamic")
public annotation class nativeGetter
@Target(FUNCTION)
@Deprecated("Use inline
extension function with body using dynamic")
public annotation class
nativeSetter
@Target(FUNCTION)
@Deprecated("Use inline extension function with body using
dynamic")
public
annotation class nativeInvoke
@Target(CLASS, FUNCTION, PROPERTY)
internal annotation class
library(public val name: String = "")
@Target(CLASS)
internal annotation class marker
/**
 * Gives a
  declaration (a function, a property or a class) specific name in JavaScript.
 * This may be useful in the
  following cases:
 * * There are two functions for which the compiler gives same name in JavaScript, you
  can
  * mark one with `@JsName(...)` to prevent the compiler from reporting error.
 * * You are writing a
  JavaScript library in Kotlin. The compiler produces mangled names
  * for functions with parameters, which is
  unnatural for usual JavaScript developer.
 * You can put `@JsName(...)` on functions you want to be available
  from JavaScript.
 * * For some reason you want to rename declaration, e.g. there's common term in JavaScript
  * for a concept provided by the declaration, which is uncommon in Kotlin.
 * Example:
 * ```
  kotlin
  * class Person(val name: String) {
  *     fun hello() {
  *         println("Hello $name!")
  *     }
  * }
  * @JsName("helloWithGreeting")
  * fun hello(greeting: String) {
  *     println("$greeting $name!")
  * }
  * }
  * ```
  * @property name the name which compiler uses both for declaration itself and for all
  references to the declaration.
  * It's required to denote a valid JavaScript identifier.
 */
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR,
PROPERTY_GETTER, PROPERTY_SETTER)
public actual annotation class JsName(actual val name:
String)
/**
 * Denotes an `external` declaration that must be imported from native JavaScript library.
 * The compiler produces the code relevant for the target module system, for example, in case of CommonJS,
  it
  will import the declaration via the `require(...)` function.
 * The annotation can be used on top-level external
  declarations
  (classes, properties, functions) and files.
 * In case of file (which can't be `external`) the following rule applies: all
  the
  declarations in
  * the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to
  import
  a JavaScript object
  * that contain all the declarations from the file.
 * Example:
 * ```
  kotlin
  * @JsModule("jquery")
  * external abstract class JQuery() {
  *     // some declarations here
  * }
  * @JsModule("jquery")
  * external fun JQuery(element: Element): JQuery
  * ```
  * @property import name
  of a module to import declaration from.
  * It is not interpreted by the Kotlin compiler, it's passed as is
  directly to the target module system.
  * @see JsNonModule

```

`@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\npublic annotation class JsModule(val import: String)\n\n/**\n * Denotes an `external` declaration that can be used without module system.\n *\n * By default, an `external` declaration is available regardless your target module system.\n *\n * However, by applying [JsModule] annotation you can make a declaration unavailable to plain module system.\n *\n * Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available\n *\n * as an npm package.\n *\n * To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the @JsNonModule annotation.\n *\n * For example:\n *\n * ``` kotlin\n * @JsModule("jquery")\n * @JsNonModule\n * @JsName("$")\n * external abstract class JQuery() {\n * // some declarations here\n * }\n *\n * @JsModule("jquery")\n * @JsNonModule\n * @JsName("$")\n * external fun JQuery(element: Element): JQuery\n * ```\n *\n * @see JsModule\n */\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\npublic annotation class JsNonModule\n\n/**\n * Adds prefix to `external` declarations in a source file.\n *\n * JavaScript does not have concept of packages (namespaces). They are usually emulated by nested objects.\n *\n * The compiler turns references to `external` declarations either to plain unprefixed names (in case of plain modules)\n *\n * or to plain imports.\n *\n * However, if a JavaScript library provides its declarations in packages, you won't be satisfied with this.\n *\n * You can tell the compiler to generate additional prefix before references to `external` declarations using the @JsQualifier(...) annotation.\n *\n * Note that a file marked with the @JsQualifier(...) annotation can't contain non-`external` declarations.\n *\n * Example:\n *\n * ```\n * @file:JsQualifier("my.jsPackageName")\n * package some.kotlinPackage\n * external fun foo(x: Int)\n * external fun bar(): String\n * ```\n *\n * @property value the qualifier to add to the declarations in the generated code.\n *\n * It must be a sequence of valid JavaScript identifiers separated by the `. character.\n *\n * Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.$0.f`\n *\n * @see JsModule\n */\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.FILE)\npublic annotation class JsQualifier(val value: String)\n\n/**\n * Exports top-level declaration on JS platform.\n *\n * Compiled module exposes declarations that are marked with this annotation without name mangling.\n *\n * This annotation can be applied to either files or top-level declarations.\n *\n * It is currently prohibited to export the following kinds of declarations:\n *\n * * `expect` declarations\n * * inline functions with reified type parameters\n * * suspend functions\n * * secondary constructors without @JsName`\n * * extension properties\n * * enum classes\n * * annotation classes\n *\n * Signatures of exported declarations must only contain "exportable" types:\n *\n * * `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`\n * * `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n * * `Array<exportable-type>`\n * * Function types with exportable parameters and return types\n * * `external` or @JsExport` classes and interfaces\n * * Nullable counterparts of types above\n * * Unit return type. Must not be nullable\n *\n * This annotation is experimental, meaning that restrictions mentioned above are subject to change.\n */\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\n@SinceKotlin("1.3")\npublic actual annotation class JsExport {\n /*\n * The annotation prevents exporting the annotated member of an exported class.\n * This annotation is experimental, meaning that the restrictions mentioned above are subject to change.\n */\n @ExperimentalJsExport\n @Retention(AnnotationRetention.BINARY)\n @Target(CLASS, PROPERTY, FUNCTION, CONSTRUCTOR)\n @SinceKotlin("1.8")\n public actual annotation class Ignore\n}\n\n/**\n * Forces a top-level property to be initialized eagerly, opposed to lazily on the first access to file and/or property.\n */\n@ExperimentalStdlibApi\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.PROPERTY)\n@SinceKotlin("1.6")\n@Deprecated("This annotation is a temporal migration assistance and may be removed in the future releases, please consider filing an issue about the case where it is needed")\npublic annotation class EagerInitialization\n\n/**\n * When placed on an external interface or class, requires all its child\n *\n * interfaces, classes, and objects to be external as well.\n *\n * The compiler mangles identifiers of functions and`



properties from non-external interfaces and classes, and doesn't mangle from external ones. Requiring external interfaces and classes inheritors being external is necessary to avoid non-obvious bugs when identifier naming in an inheritor doesn't correspond to naming in the base class or interface. Example:

```
* ``kotlin // From kotlin-wrappers external interface Props { var key: Key? }
* // User code
* @OptIn(ExperimentalStdlibApi::class) * @JsExternalInheritorsOnly external interface LayoutProps :
* Props { var layout: Layout? }
* external interface ComponentProps : LayoutProps // OK
* external interface ComponentA : ComponentProps // OK
* interface ComponentB : ComponentProps //
* Compilation error!
* `` This annotation is experimental, meaning that the restrictions mentioned above are
* subject to change.
```

```
* @ExperimentalStdlibApi @Retention(AnnotationRetention.BINARY) @Target(CLASS) @SinceKotlin("1.9")
* public annotation class JsExternalInheritorsOnly
* When placed on a function parameter, requires the type of the passed argument to be external.
* The compiler mangles identifiers of properties from non-external interfaces and classes, and doesn't mangle from external ones. Requiring a
```

type of the passing argument being external is necessary to avoid non-obvious bugs when identifier has an unstable and unpredictable name in generated JS code. Example:

```
* ``kotlin
* @OptIn(ExperimentalStdlibApi::class) fun extractUuid(@JsExternalArgument x: dynamic) = x.uuid as String
* external interface User { val uuid: String }
* interface Owner { val uuid: String }
* fun checkUser(user: User, owner: Owner): Boolean { val userUuid = extractUuid(user) // OK val
* ownerUuid = extractUuid(owner) // Compilation error! Possible bug return userUuid == ownerUuid }
* `` This annotation is experimental, meaning that the restrictions mentioned above are subject to change.
```

```
* @ExperimentalStdlibApi @Retention(AnnotationRetention.BINARY) @Target(VALUE_PARAMETER) @SinceKotlin("1.9")
* public annotation class JsExternalArgument
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin
```

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```
* package kotlin.jvm
* // these are used in common generated code in stdlib
* @Target(AnnotationTarget.FIELD) @Retention(AnnotationRetention.SOURCE) @Deprecated("This annotation has no effect in Kotlin/JS. Use kotlin.concurrent.Volatile annotation in multiplatform code instead.",
* ReplaceWith("kotlin.concurrent.Volatile",
```

```
* "kotlin.concurrent.Volatile")
* @DeprecatedSinceKotlin(warningSince = "1.9")
* public actual annotation class Volatile
* @Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER,
* AnnotationTarget.PROPERTY_SETTER)
* @Retention(AnnotationRetention.SOURCE)
* @Deprecated("Synchronizing methods on a class instance is not supported on platforms other than JVM. If you need to annotate a common method as JVM-synchronized, introduce your own optional-expectation annotation and actualize it with a typealias to kotlin.jvm.Synchronized.")
* @DeprecatedSinceKotlin(warningSince = "1.8")
* public actual annotation class Synchronized
* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the
```

```
license/LICENSE.txt file.
* package kotlin.collections
* Provides a skeletal implementation of the [MutableCollection] interface.
* @param E the type of elements contained in the collection. The collection is invariant in its element type.
* public actual abstract class AbstractMutableCollection<E> protected actual constructor() : AbstractCollection<E>(), MutableCollection<E> {
* actual abstract override fun add(element: E): Boolean
* actual override fun remove(element: E): Boolean { checkIsMutable() val iterator = iterator()
* while (iterator.hasNext()) { if (iterator.next() == element) {
* iterator.remove() return true } }
* return false }
* actual override fun addAll(elements: Collection<E>): Boolean { checkIsMutable() var modified = false
* for (element in elements) { if (add(element)) modified = true }
* return modified }
* actual override fun removeAll(elements: Collection<E>): Boolean { checkIsMutable() return (this as MutableIterable<E>).removeAll { it in elements } }
* actual override fun retainAll(elements: Collection<E>): Boolean { checkIsMutable() return (this as MutableIterable<E>).removeAll { it !in
```

```

elements } \n } \n actual override fun clear(): Unit { \n checkIsMutable() \n val iterator = this.iterator() \n
while (iterator.hasNext()) { \n iterator.next() \n iterator.remove() \n } \n } \n \n
@Deprecated("Provided so that subclasses inherit
this function", level = DeprecationLevel.HIDDEN) \n @JsName("toJSON") \n protected fun toJSON(): Any =
this.toArray() \n \n /** \n * This method is called every time when a mutating method is called on this mutable
collection. \n * Mutable collections that are built (frozen) must throw `UnsupportedOperationException`. \n */ \n
internal open fun checkIsMutable(): Unit { } \n \n /** \n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file. \n */ \n \n /** \n * Based on GWT AbstractList \n * Copyright 2007 Google
Inc. \n */ \n \n package kotlin.collections \n \n /** \n * Provides a skeletal implementation of the [MutableList]
interface. \n * \n * @param E the type of elements contained in the list. The list is invariant in its element type. \n
*/ \n public actual abstract class AbstractMutableList<E> protected actual constructor() :
AbstractMutableCollection<E>(),
MutableList<E> { \n protected var modCount: Int = 0 \n abstract override fun add(index: Int, element: E):
Unit \n abstract override fun removeAt(index: Int): E \n abstract override fun set(index: Int, element: E): E \n \n
/** \n * Adds the specified element to the end of this list. \n * \n * @return `true` because the list is always
modified as the result of this operation. \n */ \n actual override fun add(element: E): Boolean { \n
checkIsMutable() \n add(size, element) \n return true \n } \n \n actual override fun addAll(index: Int,
elements: Collection<E>): Boolean { \n AbstractList.checkPositionIndex(index, size) \n \n
checkIsMutable() \n var _index = index \n var changed = false \n for (e in elements) { \n
add(_index++, e) \n changed = true \n } \n return changed \n } \n \n actual override fun clear() { \n
checkIsMutable() \n removeRange(0,
size) \n } \n \n actual override fun removeAll(elements: Collection<E>): Boolean { \n checkIsMutable() \n
return removeAll { it in elements } \n } \n \n actual override fun retainAll(elements: Collection<E>): Boolean { \n
checkIsMutable() \n return removeAll { !it in elements } \n } \n \n actual override fun iterator():
MutableIterator<E> = IteratorImpl() \n \n actual override fun contains(element: E): Boolean = indexOf(element) >=
0 \n \n actual override fun indexOf(element: E): Int { \n for (index in 0..lastIndex) { \n if (get(index) ==
element) { \n return index \n } \n } \n return -1 \n } \n \n actual override fun
lastIndexOf(element: E): Int { \n for (index in lastIndex downTo 0) { \n if (get(index) == element) { \n
return index \n } \n } \n return -1 \n } \n \n actual override fun listIterator():
MutableListIterator<E> = listIterator(0) \n
actual override fun listIterator(index: Int): MutableListIterator<E> = ListIteratorImpl(index) \n \n \n actual
override fun subList(fromIndex: Int, toIndex: Int): MutableList<E> = SubList(this, fromIndex, toIndex) \n \n /** \n
* Removes the range of elements from this list starting from [fromIndex] and ending with but not including
[toIndex]. \n */ \n protected open fun removeRange(fromIndex: Int, toIndex: Int) { \n val iterator =
listIterator(fromIndex) \n repeat(toIndex - fromIndex) { \n iterator.next() \n iterator.remove() \n
} \n } \n \n /** \n * Compares this list with another list instance with the ordered structural equality. \n * \n
* @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same order. \n
*/ \n override fun equals(other: Any?): Boolean { \n if (other === this) return true \n if (other !is List<*>)
return false \n \n return
AbstractList.orderedEquals(this, other) \n } \n \n /** \n * Returns the hash code value for this list. \n */ \n
override fun hashCode(): Int = AbstractList.orderedHashCode(this) \n \n private open inner class IteratorImpl :
MutableIterator<E> { \n /** the index of the item that will be returned on the next call to [next]() */ \n
protected var index = 0 \n /** the index of the item that was returned on the previous call to [next]() \n * or
[ListIterator.previous]() (for `ListIterator`), \n * -1 if no such item exists \n */ \n protected var last = -
1 \n \n override fun hasNext(): Boolean = index < size \n \n override fun next(): E { \n if (!hasNext())
throw NoSuchElementException() \n last = index++ \n return get(last) \n } \n \n override fun
remove() { \n check(last != -1) { "Call next() or previous() before removing element from the iterator." } \n
} \n

```



```

    }\n\n        override operator fun contains(element: K): Boolean = containsKey(element)\n\noverride operator fun iterator(): MutableIterator<K> {\n        val entryIterator = entries.iterator()\n        return object : MutableIterator<K> {\n            override fun hasNext(): Boolean =\n                entryIterator.hasNext()\n            override fun next(): K = entryIterator.next().key\n        }\n\n        override fun remove() = entryIterator.remove()\n        }\n\n        override fun\n        remove(element: K): Boolean {\n            checkIsMutable()\n            if (containsKey(element))\n                this@AbstractMutableMap.remove(element)\n            return true\n        }\n\n        return false\n    }\n\n        override val size: Int get() =\n            this@AbstractMutableMap.size\n\n        override fun checkIsMutable(): Unit =\n            this@AbstractMutableMap.checkIsMutable()\n        }\n        }\n        return _keys!!\n    }\n\n    actual\n    abstract override fun put(key: K, value: V): V? {\n        actual override fun putAll(from: Map<out K, V>) {\n            checkIsMutable()\n            for ((key, value) in from) {\n                put(key, value)\n            }\n        }\n\n        private var _values:\n        MutableCollection<V>? = null\n        actual override val values: MutableCollection<V>\n            get() {\n                if\n                (_values == null) {\n                    _values = object : AbstractMutableCollection<V>() {\n                        override fun\n                        add(element: V): Boolean = throw\n                            UnsupportedOperationException("Add is not supported on values")\n                        override fun clear() =\n                            this@AbstractMutableMap.clear()\n                        override operator fun contains(element: V): Boolean =\n                            containsValue(element)\n                        override operator fun iterator(): MutableIterator<V> {\n                            val\n                            entryIterator = entries.iterator()\n                            return object : MutableIterator<V> {\n                                override fun\n                                hasNext(): Boolean = entryIterator.hasNext()\n                                override fun\n                                next(): V = entryIterator.next().value\n                            }\n                        }\n                    }\n                }\n                return _values!!\n            }\n\n            actual override fun remove(key: K): V? {\n                checkIsMutable()\n                val iter = entries.iterator()\n                while (iter.hasNext()) {\n                    val entry = iter.next()\n                    val k = entry.key\n                    if (key == k) {\n                        val value = entry.value\n                        iter.remove()\n                        return value\n                    }\n                }\n                return null\n            }\n        }\n\n        /**\n         * This method is called every time when a mutating method is called on this mutable map.\n         * Mutable maps that are built (frozen) must throw `UnsupportedOperationException`.\n         */\n        internal open fun\n        checkIsMutable(): Unit {\n        }\n    }\n\n    /*\n     * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language\n     * contributors.\n     * Use of this source code is governed by the Apache 2.0 license that can be found in the\n     * license/LICENSE.txt file.\n     */\n    package kotlin.collections\n\n    /**\n     * Provides a skeletal implementation of the\n     * [MutableSet] interface.\n     */\n    @param E the\n        type of elements contained in the set. The set is invariant in its element type.\n    public actual abstract class\n    AbstractMutableSet<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableSet<E> {\n\n        /**\n         * Compares this set with another set instance with the unordered structural equality.\n         */\n        @return\n        `true`, if [other] instance is a [Set] of the same size, all elements of which are contained in this set.\n\n        override fun equals(other: Any?): Boolean {\n            if (other === this) return true\n            if (other !is Set<*>) return\n            false\n            return AbstractSet.setEquals(this, other)\n        }\n\n        /**\n         * Returns the hash code value for this set.\n         */\n        override fun hashCode(): Int = AbstractSet.unorderedHashCode(this)\n    }\n\n    /*\n     * Copyright 2010-2023\n     * JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of this source code is governed by the\n     * Apache 2.0 license that can be found in the license/LICENSE.txt\n     * file.\n     */\n    package kotlin.collections\n\n    /**\n     * Provides a [MutableList] implementation, which uses a resizable\n     * array as its backing storage.\n     */\n    * This implementation doesn't provide a way to manage capacity, as backing JS\n     * array is resizable itself.\n     * There is no speed advantage to pre-allocating array sizes in JavaScript, so this\n     * implementation does not include any of the\n     * capacity and "growth increment" concepts.\n    public actual open\n    class ArrayList<E> internal constructor(private var array: Array<Any?>) : AbstractMutableList<E>(),\n    MutableList<E>, RandomAccess {\n        private companion object {\n            private val Empty =\n                ArrayList<Nothing>(0).also { it.isReadOnly = true }\n        }\n        private var isReadOnly: Boolean = false\n    }\n\n    /**\n
```

```

    * Creates an empty [ArrayList].\n    */\n    public actual constructor() : this(emptyArray()) {} \n    /**\n    * Creates an empty [ArrayList].\n    * @param initialCapacity initial capacity (ignored)\n    */\n    public\n    actual constructor(initialCapacity: Int) : this(emptyArray()) {} \n    /**\n    * Creates an [ArrayList] filled from\n    the [elements] collection.\n    */\n    public actual constructor(elements: Collection<E>) :\n    this(elements.toArray<Any?>()) {} \n    @PublishedApi\n    internal fun build(): List<E> {\n    checkIsMutable()\n    isReadOnly = true\n    return if (size > 0) this else Empty\n    } \n    /** Does nothing in\n    this ArrayList implementation. */\n    public actual fun trimToSize() {} \n    /** Does nothing in this ArrayList\n    implementation. */\n    public actual fun ensureCapacity(minCapacity: Int) {} \n    actual override val size: Int get()\n    = array.size\n    @Suppress("UNCHECKED_CAST")\n    actual override fun get(index: Int): E =\n    array[rangeCheck(index)] as E\n    actual override fun set(index: Int, element: E): E {\n    checkIsMutable()\n    rangeCheck(index)\n    @Suppress("UNCHECKED_CAST")\n    return array[index].apply { array[index]\n    = element } as E\n    } \n    actual override fun add(element: E): Boolean {\n    checkIsMutable()\n    array.asDynamic().push(element)\n    modCount++\n    return true\n    } \n    actual override fun add(index:\n    Int, element: E): Unit {\n    checkIsMutable()\n    array.asDynamic().splice(insertionRangeCheck(index), 0,\n    element)\n    modCount++\n    } \n    private fun increaseLength(amount: Int): Int {\n    val previous = size\n    array.asDynamic().length = size + amount\n    return previous\n    } \n    actual override fun addAll(elements:\n    Collection<E>): Boolean {\n    checkIsMutable()\n    if (elements.isEmpty()) return false\n\n    val offset =\n    increaseLength(elements.size)\n    elements.forEachIndexed { index, element ->\n    array[offset + index] =\n    element\n    } \n    modCount++\n    return true\n    } \n    actual override fun addAll(index: Int, elements:\n    Collection<E>): Boolean {\n    checkIsMutable()\n    insertionRangeCheck(index)\n\n    if (index == size) return addAll(elements)\n    if\n    (elements.isEmpty()) return false\n\n    val tail = array.asDynamic().splice(index).unsafeCast<Array<E>>()\n    addAll(elements)\n\n    val offset = increaseLength(tail.size)\n    repeat(tail.size) { tailIndex ->\n    array[offset + tailIndex] = tail[tailIndex]\n    } \n    modCount++\n    return true\n    } \n    actual override\n    fun removeAt(index: Int): E {\n    checkIsMutable()\n    rangeCheck(index)\n    modCount++\n    return if\n    (index == lastIndex)\n    array.asDynamic().pop()\n    else\n    array.asDynamic().splice(index, 1)[0]\n    } \n    actual override fun remove(element: E): Boolean {\n    checkIsMutable()\n    for (index in array.indices)\n    {\n    if (array[index] == element) {\n    array.asDynamic().splice(index, 1)\n    modCount++\n\n    return true\n    } \n    } \n    return false\n    } \n    override fun removeRange(fromIndex: Int, toIndex:\n    Int) {\n    checkIsMutable()\n    modCount++\n    array.asDynamic().splice(fromIndex, toIndex -\n    fromIndex)\n    } \n    actual override fun clear() {\n    checkIsMutable()\n    array = emptyArray()\n    modCount++\n    } \n    actual override fun indexOf(element: E): Int = array.indexOf(element)\n    actual\n    override fun lastIndexOf(element: E): Int = array.lastIndexOf(element)\n    override fun toString() =\n    arrayToString(array)\n    @Suppress("UNCHECKED_CAST")\n    override fun <T> toArray(array: Array<T>):\n    Array<T> {\n    if (array.size < size) {\n    return toArray() as Array<T>\n    } \n    (this.array as\n    Array<T>).copyInto(array)\n    if (array.size > size) {\n    array[size] = null as T // null-terminate\n    } \n    return array\n    } \n    override fun toArray(): Array<Any?>\n    {\n    return js("[ ]").slice.call(array)\n    } \n    internal override fun checkIsMutable() {\n    if\n    (isReadOnly) throw UnsupportedOperationException()\n    } \n    private fun rangeCheck(index: Int) = index.apply\n    {\n    AbstractList.checkElementIndex(index, size)\n    } \n    private fun insertionRangeCheck(index: Int) =\n    index.apply {\n    AbstractList.checkPositionIndex(index, size)\n    } \n    } \n    /**\n    * Copyright 2010-2019 JetBrains\n    s.r.o. and Kotlin Programming Language contributors.\n    * Use of this source code is governed by the Apache 2.0\n    license that can be found in the license/LICENSE.txt file.\n    */\n    @npackage kotlin.collections\n    internal fun <T>\n    sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {\n    if (getStableSortingIsSupported()) {\n    array.asDynamic().sort(comparison)\n    } else {\n    mergeSort(array.unsafeCast<Array<T>>(), 0,\n    array.lastIndex, Comparator(comparison))\n    } \n    } \n    internal fun <T> sortArrayWith(array:

```

```

Array<out T>, comparator: Comparator<in T>) {\n    if (getStableSortingIsSupported()) {\n        val comparison = {
a: T, b: T -> comparator.compare(a, b) }\n        array.asDynamic().sort(comparison)\n    } else {\n
mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)\n    }\n}\n\ninternal fun <T>
sortArrayWith(array: Array<out T>, fromIndex: Int, toIndex: Int, comparator: Comparator<in T>) {\n    if
(fromIndex < toIndex - 1) {\n        mergeSort(array.unsafeCast<Array<T>>(), fromIndex, toIndex - 1, comparator)\n
    }\n}\n\ninternal fun <T : Comparable<T>> sortArray(array: Array<out T>) {\n    if
(getStableSortingIsSupported()) {\n        val comparison = { a: T, b: T -> a.compareTo(b) }\n
array.asDynamic().sort(comparison)\n    } else {\n        mergeSort(array.unsafeCast<Array<T>>(), 0,
array.lastIndex, naturalOrder())\n    }\n}\n\nprivate var _stableSortingIsSupported: Boolean? = null\nprivate fun
getStableSortingIsSupported(): Boolean {\n    _stableSortingIsSupported?.let
{ return it }\n    _stableSortingIsSupported = false\n\n    val array = js("[ ]").unsafeCast<Array<Int>>()\n    //
known implementations may use stable sort for arrays of up to 512 elements\n    // so we create slightly more
elements to test stability\n    for (index in 0 until 600) array.asDynamic().push(index)\n    val comparison = { a: Int,
b: Int -> (a and 3) - (b and 3) }\n    array.asDynamic().sort(comparison)\n    for (index in 1 until array.size) {\n
val a = array[index - 1]\n        val b = array[index]\n        if ((a and 3) == (b and 3) && a >= b) return false\n    }\n
_stableSortingIsSupported = true\n    return true\n}\n\nprivate fun <T> mergeSort(array: Array<T>, start: Int,
endInclusive: Int, comparator: Comparator<in T>) {\n    val buffer =
arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()\n    val result = mergeSort(array, buffer, start,
endInclusive, comparator)\n    if (result !== array) {\n        for (i in start..endInclusive)
array[i] = result[i]\n    }\n}\n\n// Both start and end are inclusive indices.\nprivate fun <T> mergeSort(array:
Array<T>, buffer: Array<T>, start: Int, end: Int, comparator: Comparator<in T>): Array<T> {\n    if (start == end)
{\n        return array\n    }\n\n    val median = (start + end) / 2\n    val left = mergeSort(array, buffer, start, median,
comparator)\n    val right = mergeSort(array, buffer, median + 1, end, comparator)\n\n    val target = if (left ===
buffer) array else buffer\n\n    // Merge.\n    var leftIndex = start\n    var rightIndex = median + 1\n    for (i in
start..end) {\n        when {\n            leftIndex <= median && rightIndex <= end -> {\n                val leftValue =
left[leftIndex]\n                    val rightValue = right[rightIndex]\n                    if (comparator.compare(leftValue,
rightValue) <= 0) {\n                        target[i] = leftValue\n                        leftIndex++\n                    } else {\n
target[i] = rightValue\n                        rightIndex++\n                    }\n                }\n            leftIndex <= median -> {\n                target[i] =
left[leftIndex]\n                    leftIndex++\n                }\n            else /* rightIndex <= end */ -> {\n                target[i] =
right[rightIndex]\n                    rightIndex++\n                }\n            Unit // TODO: Fix KT-31506\n        }\n    }\n\n    return target\n}"}\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage
kotlin.collections\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@kotlin.js.JsName("
contentDeepHashCodeImpl")\ninternal fun <T> Array<out T>?.contentDeepHashCodeImpl(): Int {\n    if (this ==
null) return 0\n    var result = 1\n    for (element in this) {\n        val elementHash = when {\n            element == null
-> 0\n                isArrayish(element) -> (element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()\n            element is
UByteArray -> element.contentHashCode()\n            element is UShortArray -> element.contentHashCode()\n            element is
UIntArray -> element.contentHashCode()\n            element is ULongArray ->
element.contentHashCode()\n            else -> element.hashCode()\n        }\n        result = 31 * result +
elementHash\n    }\n    return result\n}"}\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal interface EqualityComparator {\n    /*\n * Subclasses must override to return a value indicating\n * whether or not two keys or values are equal.\n */\n
abstract fun equals(value1: Any?, value2: Any?): Boolean\n}"}\n\n/*\n */

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    * Subclasses must override to return the hash code of a given key.\n    */\n    abstract fun getHashCode(value:
Any?): Int\n\n    object hashCode : EqualityComparator {\n        override fun equals(value1: Any?, value2: Any?):
Boolean = value1 == value2\n        override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0\n
    }\n}", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n *
Based on GWT AbstractHashMap\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport
kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based implementation of the [MutableMap]
interface.\n * This implementation makes no guarantees regarding the order of enumeration of [keys], [values]
and [entries] collections.\n */\n// Classes that extend HashMap and implement `build()` (freezing) operation\n//
have to make sure mutating methods check `checkIsMutable`.\n\npublic actual open class HashMap<K, V> :
AbstractMutableMap<K, V>, MutableMap<K, V> {\n    private inner class EntrySet :
AbstractEntrySet<MutableEntry<K, V>, K, V>() {\n        override fun add(element: MutableEntry<K, V>):
Boolean = throw UnsupportedOperationException("Add is not supported on entries")\n        override fun clear()
{\n            this@HashMap.clear()\n        }\n        override fun containsEntry(element: Map.Entry<K, V>): Boolean
= this@HashMap.containsEntry(element)\n        override operator fun iterator():
MutableIterator<MutableEntry<K, V>> = internalMap.iterator()\n        override fun removeEntry(element:
Map.Entry<K, V>): Boolean {\n            if (contains(element)) {\n                this@HashMap.remove(element.key)\n
                return true\n            }\n            return false\n        }\n        override val size: Int get() =
this@HashMap.size\n    }\n\n    /**\n    * Internal implementation of the map: either string-based or hashcode-based.\n    */\n    private val internalMap:
InternalMap<K, V>\n    private val equality: EqualityComparator\n    internal constructor(internalMap:
InternalMap<K, V>) : super() {\n        this.internalMap = internalMap\n        this.equality = internalMap.equality\n
    }\n\n    /**\n    * Constructs an empty [HashMap] instance.\n    */\n    actual constructor():
this(InternalHashCodeMap(EqualityComparator.HashCode))\n\n    /**\n    * Constructs an empty [HashMap]
instance.\n    * @param initialCapacity the initial capacity (ignored)\n    * @param loadFactor the load
factor (ignored)\n    * @throws IllegalArgumentException if the initial capacity or load factor are negative\n
    */\n    actual constructor(initialCapacity: Int, loadFactor: Float) : this() {\n        // This implementation of HashMap
has no need of load factors or capacities.\n        require(initialCapacity >= 0)\n        {
            \"Negative initial capacity: $initialCapacity\"\n        }\n        require(loadFactor >= 0) {\n            \"Non-positive load factor:
$loadFactor\"\n        }\n    }\n\n    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n    /**\n    *
Constructs an instance of [HashMap] filled with the contents of the specified [original] map.\n    */\n    actual
constructor(original: Map<out K, V>) : this() {\n        this.putAll(original)\n    }\n\n    actual override fun clear() {\n
        internalMap.clear()\n        // structureChanged(this)\n    }\n\n    actual override fun containsKey(key: K): Boolean
= internalMap.containsKey()\n\n    actual override fun containsValue(value: V): Boolean = internalMap.any {\n
        equality.equals(it.value, value)\n    }\n\n    private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>? =
null\n    actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n        get() {\n            if
(_entries == null) {\n                _entries = createEntrySet()\n            }\n            return _entries!!\n        }\n\n    internal open fun createEntrySet():
MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n    actual override operator fun get(key: K): V? =
internalMap.get(key)\n\n    actual override fun put(key: K, value: V): V? = internalMap.put(key, value)\n\n    actual
override fun remove(key: K): V? = internalMap.remove(key)\n\n    actual override val size: Int get() =
internalMap.size\n}\n\n/**\n * Constructs the specialized implementation of [HashMap] with [String] keys, which
stores the keys as properties of\n * JS object without hashing them.\n */\n\npublic fun <V> stringMapOf(vararg pairs:
Pair<String, V>): HashMap<String, V> {\n    return HashMap<String,
V>(InternalStringMap(EqualityComparator.HashCode)).apply {\n        putAll(pairs)\n    }\n}\n}", "/*\n * Copyright 2010-2018
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Apache 2.0 license that can be found in the license/LICENSE.txt

```

```

file.\n */\n*\n * Based on GWT HashSet\n * Copyright 2008 Google Inc.\n */\n\npackage
kotlin.collections\n\n/**\n * The implementation of the [MutableSet] interface, backed by a [HashMap] instance.\n
*/\n// Classes that extend HashSet and implement `build()` (freezing) operation\n// have to make sure mutating
methods check `checkIsMutable`.\n\npublic actual open class HashSet<E> : AbstractMutableSet<E>, MutableSet<E>
{\n\n    internal val map: HashMap<E, Any>\n\n    /**\n     * Constructs a new empty [HashSet].\n     */\n    actual
constructor() {\n        map = HashMap<E, Any>()\n    }\n\n    /**\n     * Constructs a new [HashSet] filled with the
elements of the specified collection.\n     */\n    actual constructor(elements: Collection<E>) {\n        map =
HashMap<E, Any>(elements.size)\n        addAll(elements)\n    }\n\n    /**\n     * Constructs a new empty
[HashSet].\n     */\n    @param initialCapacity the initial capacity (ignored)\n     * @param loadFactor the
load factor (ignored)\n     * @throws IllegalArgumentException if the initial capacity or load factor are
negative\n     */\n    actual constructor(initialCapacity: Int, loadFactor: Float) {\n        map = HashMap<E,
Any>(initialCapacity, loadFactor)\n    }\n\n    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n
/**\n     * Protected constructor to specify the underlying map. This is used by\n     * LinkedHashSet.\n     */
    @param map underlying map to use.\n     */\n    internal constructor(map: HashMap<E, Any>) {\n        this.map =
map\n    }\n\n    actual override fun add(element: E): Boolean {\n        val old = map.put(element, this)\n        return
old == null\n    }\n\n    actual override fun clear() {\n        map.clear()\n    }\n\n    // public override fun clone(): Any
{\n    //     return HashSet<E>(this)\n    // }\n\n    actual override operator fun contains(element: E): Boolean =
map.containsKey(element)\n\n    actual override fun isEmpty():
Boolean = map.isEmpty()\n\n    actual override fun iterator(): MutableIterator<E> = map.keys.iterator()\n\n    actual
override fun remove(element: E): Boolean = map.remove(element) != null\n\n    actual override val size: Int get() =
map.size\n\n}\n\n/**\n * Creates a new instance of the specialized implementation of [HashSet] with the specified
[String] elements,\n * which elements the keys as properties of JS object without hashing them.\n */\n\npublic fun
stringSetOf(vararg elements: String): HashSet<String> {\n    return HashSet(stringMapOf<Any>()).apply {
addAll(elements) }\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\nimport
kotlin.collections.AbstractMutableMap.SimpleEntry\n\n\n/**\n * A simple wrapper around JavaScriptObject to provide [java.util.Map]-like semantics for any\n * key type.\n */\n
*\n * Implementation notes:\n * *\n * A key's hashCode is the index in backingMap which should contain that
key. Since several keys may\n * have the same hash, each value in hashCodeMap is actually an array containing all
entries whose\n * keys share the same hash.\n */\n\ninternal class InternalHashCodeMap<K, V>(override val equality:
EqualityComparator) : InternalMap<K, V> {\n\n    private var backingMap: dynamic = createJsMap()\n    override
var size: Int = 0\n    private set\n\n    override fun put(key: K, value: V): V? {\n        val hashCode =
equality.getHashCode(key)\n        val chainOrEntry = getChainOrEntryOrNull(hashCode)\n        if (chainOrEntry
== null) {\n            // This is a new chain, put it to the map.\n            backingMap[hashCode] = SimpleEntry(key,
value)\n        } else {\n            if (chainOrEntry !is
Array<*>) {\n                // It is an entry\n                val entry: SimpleEntry<K, V> = chainOrEntry\n                if
(equality.equals(entry.key, key)) {\n                    return entry.setValue(value)\n                } else {\n
backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))\n                    size++\n                    return null\n
                }\n            } else {\n                // Chain already exists, perhaps key also exists.\n                val chain:
Array<MutableEntry<K, V>> = chainOrEntry\n                val entry = chain.findEntryInChain(key)\n                if
(entry != null) {\n                    return entry.setValue(value)\n                }\n                chain.asDynamic().push(SimpleEntry(key, value))\n            }\n            size++\n            // structureChanged(host)\n            return null\n        }\n\n        override fun remove(key: K): V? {\n            val hashCode = equality.getHashCode(key)\n            val
chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null\n            if (chainOrEntry !is Array<*>) {\n                val
entry: MutableEntry<K, V> = chainOrEntry\n                if (equality.equals(entry.key, key)) {\n

```





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kotlin.collections.MutableMap.MutableEntry\n\n/**\n * A simple wrapper around JavaScript Map for key type is
string.\n * Though this map is instantiated only with K=String, the K type is not fixed to String statically,\n *
because we want to have it erased to Any? in order not to generate type-safe override
bridges for\n * [get], [contains], [remove] etc, if they ever are generated.\n *\ninternal class InternalStringMap<K,
V>(override val equality: EqualityComparator) : InternalMap<K, V> {\n\n    private var backingMap: dynamic =
createJsMap()\n    override var size: Int = 0\n    private set\n\n    /**\n     * A mod count to track 'value'
replacements in map to ensure that the 'value' that we have in the\n     * iterator entry is guaranteed to be still
correct.\n     * This is to optimize for the common scenario where the values are not modified during\n     *
iterations where the entries are never stale.\n     */\n    private var valueMod: Int = 0\n\n    override operator fun
contains(key: K): Boolean {\n        if (key !is String) return false\n        return backingMap[key] !== undefined\n
}\n\n    override operator fun get(key: K): V? {\n        if (key !is String) return null\n        val value =
backingMap[key]\n        return if (value !== undefined) value.unsafeCast<V>()\n        else null\n    }\n\n    override fun put(key: K, value: V): V? {\n        require(key is String)\n        val oldValue =
backingMap[key]\n        backingMap[key] = value\n\n        if (oldValue === undefined) {\n            size++\n\n            structureChanged(host)\n            return null\n        } else {\n            valueMod++\n            return
oldValue.unsafeCast<V>()\n        }\n    }\n\n    override fun remove(key: K): V? {\n        if (key !is String) return
null\n        val value = backingMap[key]\n        if (value !== undefined) {\n            jsDeleteProperty(backingMap,
key)\n            size--\n\n            structureChanged(host)\n            return value.unsafeCast<V>()\n        } else {\n            valueMod++\n            return null\n        }\n    }\n\n    override fun clear() {\n        backingMap = createJsMap()\n        size = 0\n    }\n\n    override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n        return object
: MutableIterator<MutableEntry<K, V>> {\n            private val keys: Array<String> =
js("Object").keys(backingMap)\n            private val iterator = keys.iterator()\n            private var lastKey: String? =
null\n\n            override fun hasNext(): Boolean = iterator.hasNext()\n\n            override fun next():
MutableEntry<K, V> {\n                val key = iterator.next()\n                lastKey = key\n\n                @Suppress("UNCHECKED_CAST")\n                return newMapEntry(key as K)\n            }\n\n            override
fun remove() {\n                @Suppress("UNCHECKED_CAST")\n                this@InternalStringMap.remove(checkNotNull(lastKey) as K)\n            }\n        }\n\n        private fun
newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {\n            override val key: K get() =
key\n            override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()\n\n            override fun
setValue(newValue: V): V = this@InternalStringMap.put(key,
newValue).unsafeCast<V>()\n\n            override fun hashCode(): Int = AbstractMap.entryHashCode(this)\n\n            override fun toString(): String = AbstractMap.entryToString(this)\n\n            override fun equals(other: Any?): Boolean
= AbstractMap.entryEquals(this, other)\n        }\n    }\n\n    /**\n     * Copyright 2010-2023 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n     * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n     */\n\n    /**\n     * Based on GWT LinkedHashMap\n     * Copyright 2008 Google
Inc.\n     */\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table
based implementation of the [MutableMap] interface, which additionally preserves the insertion order\n * of entries
during the iteration.\n * The insertion order is preserved by maintaining a doubly-linked list of all of its
entries.\n */\n\npublic actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K,
V> {\n    private companion object {\n        private val Empty = LinkedHashMap<Nothing, Nothing>(0).also {
it.isReadOnly = true }\n    }\n\n    /**\n     * The entry we use includes next/prev pointers for a doubly-linked
circular\n     * list with a head node. This reduces the special cases we have to deal with\n     * in the list
operations.\n     * Note that we duplicate the key from the underlying hash map so we can find\n     * the eldest
entry. The alternative would have been to modify HashMap so more\n     * of the code was directly usable here, but
this would have added some\n     * overhead to HashMap, or to reimplement most of the HashMap code here with\n
     * small modifications. Paying a small storage cost only if you use\n     * LinkedHashMap and minimizing code size
seemed like a better tradeoff\n     */\n\n    private inner class ChainEntry<K, V>(key: K, value: V) :
AbstractMutableMap.SimpleEntry<K, V>(key, value) {\n        internal var next: ChainEntry<K, V>? =

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null\n    internal var prev: ChainEntry<K, V>? = null\n\n    override fun setValue(newValue: V): V {\n
this@LinkedHashMap.checkIsMutable()\n    return super.setValue(newValue)\n    }\n }\n\n private inner
class EntrySet : AbstractEntrySet<MutableEntry<K, V>, K, V>() {\n\n    private inner class EntryIterator :
MutableIterator<MutableEntry<K, V>> {\n\n        // The last entry that was returned from this iterator.\n
private var last: ChainEntry<K, V>? = null\n\n        // The next entry to return from this iterator.\n        private
var next: ChainEntry<K, V>? = null\n\n        init {\n            next = head\n\n        }\n\n        recordLastKnownStructure(map, this)\n\n        override fun hasNext(): Boolean {\n            return
next != null\n        }\n\n        override fun next(): MutableEntry<K, V> {\n\n            checkStructuralChange(map, this)\n            if (!hasNext())\n                throw NoSuchElementException()\n\n            val current = next!!\n            last = current\n            next =
current.next.takeIf { it != head }\n            return current\n        }\n\n        override fun remove() {\n            check(last != null)\n            this@EntrySet.checkIsMutable()\n\n            checkStructuralChange(map, this)\n            last!!.remove()\n            map.remove(last!!.key)\n\n            recordLastKnownStructure(map, this)\n            last = null\n        }\n\n        override fun add(element: MutableEntry<K, V>): Boolean = throw
UnsupportedOperationException("Add is not supported on entries")\n\n        override fun clear() {\n            this@LinkedHashMap.clear()\n        }\n\n        override fun containsEntry(element: Map.Entry<K, V>): Boolean =
this@LinkedHashMap.containsEntry(element)\n\n        override operator fun iterator():
MutableIterator<MutableEntry<K, V>> = EntryIterator()\n\n        override fun removeEntry(element: Map.Entry<K, V>): Boolean {\n            checkIsMutable()\n            if
(contains(element)) {\n                this@LinkedHashMap.remove(element.key)\n                return true\n            }\n            return false\n        }\n\n        override val size: Int get() = this@LinkedHashMap.size\n\n        override fun
checkIsMutable(): Unit = this@LinkedHashMap.checkIsMutable()\n    }\n\n    /*\n     * The head of the insert order
chain, which is a doubly-linked circular\n     * list.\n     * The most recently inserted node is at the end of the
chain, ie.\n     * chain.prev.\n     */\n    private var head: ChainEntry<K, V>? = null\n\n    /*\n     * Add this node to
the end of the chain.\n     */\n    private fun ChainEntry<K, V>.addToEnd() {\n        // This entry is not in the list.\n
check(next == null && prev == null)\n        val _head = head\n        if (_head == null) {\n            head = this\n            next
= this\n            prev = this\n        } else {\n            // Chain is valid.\n            val _tail = checkNotNull(_head.prev)\n            // Update me.\n            prev = _tail\n            next = _head\n            // Update my new siblings: current head and
old tail\n            _head.prev = this\n            _tail.next = this\n        }\n    }\n\n    /*\n     * Remove this node from the
chain it is a part of.\n     */\n    private fun ChainEntry<K, V>.remove() {\n        if (this.next === this) {\n            // if
this is single element, remove head\n            head = null\n        } else {\n            if (head === this) {\n                // if
this is first element, move head to next\n                head = next\n            }\n            next!!.prev = prev\n            prev!!.next = next\n        }\n        next = null\n        prev = null\n    }\n\n    /*\n     * The hashmap that keeps track of
our entries and the chain. Note that we\n     * duplicate the key here to eliminate
changes to HashMap and minimize the\n     * code here, at the expense of additional space.\n     */\n    private val map:
HashMap<K, ChainEntry<K, V>>\n\n    private var isReadOnly: Boolean = false\n\n    /*\n     * Constructs an
empty [LinkedHashMap] instance.\n     */\n    actual constructor(): super() {\n        map = HashMap<K,
ChainEntry<K, V>>()\n    }\n\n    internal constructor(backingMap: HashMap<K, Any>): super() {\n
@Suppress("UNCHECKED_CAST") // expected to work due to erasure\n        map = backingMap as
HashMap<K, ChainEntry<K, V>>\n    }\n\n    /*\n     * Constructs an empty [LinkedHashMap] instance.\n     */\n    * @param initialCapacity the initial capacity (ignored)\n    * @param loadFactor the load factor (ignored)\n
*\n    * @throws IllegalArgumentException if the initial capacity or load factor are negative\n    */\n    actual
constructor(initialCapacity: Int, loadFactor: Float): super(initialCapacity, loadFactor) {\n        map = HashMap<K,
ChainEntry<K, V>>()\n    }\n\n    actual constructor(initialCapacity: Int): this(initialCapacity, 0.0f)\n\n    /*\n     *
Constructs an instance of [LinkedHashMap] filled with the contents of the specified [original] map.\n     */\n    actual
constructor(original: Map<out K, V>): {\n        map = HashMap<K, ChainEntry<K, V>>()\n        this.putAll(original)\n    }\n\n    @PublishedApi\n    internal fun build(): Map<K, V> {\n        checkIsMutable()\n

```



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Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.io\n\ninternal abstract class BaseOutput {\n
open fun println() {\n    print("\n")\n } \n\n open fun println(message: Any?) {\n    print(message)\n
println()\n } \n\n abstract\n
fun print(message: Any?)\n\n open fun flush() {} \n\n\n/** JsName used to make the declaration available
outside of module to test it */\n\n@JsName("NodeJsOutput")\n\ninternal class NodeJsOutput(val outputStream:
dynamic) : BaseOutput() {\n    override fun print(message: Any?) {\n        // TODO: Using local variable because of
bug in block decomposition lowering in IR backend\n        val messageString = String(message)\n
outputStream.write(messageString)\n    } \n\n\n/** JsName used to make the declaration available outside of
module to test it */\n\n@JsName("OutputToConsoleLog")\n\ninternal class OutputToConsoleLog : BaseOutput() {\n
override fun print(message: Any?) {\n    console.log(message)\n } \n\n override fun println(message: Any?)\n
{\n    console.log(message)\n } \n\n override fun println() {\n    console.log("")\n } \n\n\n/** JsName
used to make the declaration available outside of module to test it and use at try.kotl.in\n
*/\n\n@JsName("BufferedOutput")\n\ninternal\n
open class BufferedOutput : BaseOutput() {\n    var buffer = ""\n\n override fun print(message: Any?) {\n
buffer += String(message)\n } \n\n override fun flush() {\n    buffer = ""\n } \n\n\n/** JsName used to
make the declaration available outside of module to test it\n
*/\n\n@JsName("BufferedOutputToConsoleLog")\n\ninternal class BufferedOutputToConsoleLog : BufferedOutput()\n
{\n    override fun print(message: Any?) {\n        var s = String(message)\n        val i = s.nativeLastIndexOf("\n",\n
0)\n        if (i >= 0) {\n            buffer += s.substring(0, i)\n            flush()\n            s = s.substring(i + 1)\n        }\n
buffer += s\n    } \n\n override fun flush() {\n        console.log(buffer)\n        buffer = ""\n    } \n\n\n/** JsName
used to make the declaration available outside of module to test it and use at try.kotl.in\n
*/\n\n@JsName("output")\n\ninternal var output = run {\n    val isNode: Boolean = js("typeof\n
process !== 'undefined' && process.versions && !!process.versions.node")\n    if (isNode)\n
NodeJsOutput(js("process.stdout")) else\n
BufferedOutputToConsoleLog()\n}\n\n\n@kotlin.internal.InlineOnly\n\nprivate inline fun String(value: Any?): String =
js("String")(value)\n\n\n/** Prints the line separator to the standard output stream. */\n\npublic actual fun println() {\n
output.println()\n}\n\n\n/** Prints the given [message] and the line separator to the standard output stream. */\n\npublic
actual fun println(message: Any?) {\n    output.println(message)\n}\n\n\n/** Prints the given [message] to the standard
output stream. */\n\npublic actual fun print(message: Any?) {\n
output.print(message)\n}\n\n\n@SinceKotlin("1.6")\n\npublic actual fun readln(): String = throw\n
UnsupportedOperationException("readln is not supported in Kotlin/JS")\n\n\n@SinceKotlin("1.6")\n\npublic actual
fun readlnOrNull(): String? = throw UnsupportedOperationException("readlnOrNull is not supported in\n
Kotlin/JS"), "/*\n
\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n\npackage\n
kotlin.coroutines\n\nimport kotlin.coroutines.intrinsics.CoroutineSingletons.\n\nimport\n
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n\n@PublishedApi\n\n@SinceKotlin("1.3")\n\ninternal\n
actual class SafeContinuation<in T>\n\ninternal actual constructor(\n    private val delegate: Continuation<T>,\n
initialResult: Any?)\n    : Continuation<T> {\n    @PublishedApi\n    internal actual constructor(delegate:\n
Continuation<T>) : this(delegate, UNDECIDED)\n\n    public actual override val context: CoroutineContext\n
get() = delegate.context\n\n    private var result: Any? = initialResult\n\n    public actual override fun\n
resumeWith(result: Result<T>) {\n        val cur = this.result\n        when {\n            cur === UNDECIDED -> {\n
this.result = result.value\n
\n            }\n            cur === COROUTINE_SUSPENDED -> {\n                this.result = RESUMED\n
\n            }\n            else -> throw IllegalStateException("Already resumed")\n        }\n    }\n\n    @PublishedApi\n    internal actual fun getOrThrow(): Any? {\n        if (result === UNDECIDED) {\n
result = COROUTINE_SUSPENDED\n        return COROUTINE_SUSPENDED\n        }\n        val result =

```

```

this.result\n    return when {\n        result === RESUMED -> COROUTINE_SUSPENDED // already called
continuation, indicate COROUTINE_SUSPENDED upstream\n        result is Result.Failure -> throw
result.exception\n    else -> result // either COROUTINE_SUSPENDED or data\n    }\n }\n}\n"/*\n *
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governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.coroutines.cancellation\n\n@SinceKotlin("1.4")\npublic actual open class CancellationException :
IllegalStateException {\n    actual constructor() : super()\n    actual constructor(message: String?) : super(message)\n
    constructor(message: String?, cause: Throwable?) : super(message, cause)\n    constructor(cause: Throwable?) :
super(cause)\n}"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.coroutines.js.internal\n\nimport kotlin.coroutines.Continuation\nimport
kotlin.coroutines.EmptyCoroutineContext\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal val
EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result ->\n    result.getOrThrow()\n}"/*\n
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is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n *
Exposes the [Date API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date)
to Kotlin.\n */\n\n@Suppress("NOT_DOCUMENTED")\npublic external class Date() {\n    public
constructor(milliseconds: Number)\n\n    public constructor(dateString: String)\n\n    public constructor(year: Int,
month: Int)\n\n    public constructor(year: Int, month: Int, day: Int)\n\n    public constructor(year: Int, month: Int,
day: Int, hour: Int)\n\n    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\n\n    public
constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)\n\n    public constructor(year: Int,
month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number)\n\n    public fun getDate(): Int\n\n
    public fun getDay(): Int\n\n    public fun getFullYear(): Int\n\n    public fun getHours():
Int\n\n    public fun getMilliseconds(): Int\n\n    public fun getMinutes(): Int\n\n    public fun getMonth(): Int\n\n
    public fun getSeconds(): Int\n\n    public fun getTime(): Double\n\n    public fun getTimezoneOffset(): Int\n\n
    public fun getUTCDate(): Int\n\n    public fun getUTCDay(): Int\n\n    public fun getUTCFullYear(): Int\n\n
    public fun getUTCHours(): Int\n\n    public fun getUTCMilliseconds(): Int\n\n    public fun getUTCMinutes():
Int\n\n    public fun getUTCMonth(): Int\n\n    public fun getUTCSeconds(): Int\n\n    public fun toDateString():
String\n\n    public fun toISOString(): String\n\n    public fun toJSON(): Json\n\n    public fun
toLocaleDateString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally):
String\n\n    public fun toLocaleDateString(locales: String, options: LocaleOptions = definedExternally): String\n\n
    public fun toLocaleString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally):
String\n\n    public fun toLocaleString(locales: String, options: LocaleOptions = definedExternally): String\n\n
    public fun toLocaleTimeString(locales: Array<String> = definedExternally, options: LocaleOptions =
definedExternally): String\n\n    public fun toLocaleTimeString(locales: String, options: LocaleOptions =
definedExternally): String\n\n    public fun toTimeString(): String\n\n    public fun toUTCString(): String\n\n
    public companion object {\n        public fun now(): Double\n\n        public fun parse(dateString: String): Double\n\n
        public fun UTC(year: Int, month: Int): Double\n\n        public fun UTC(year: Int, month: Int, day: Int):
Double\n\n        public fun UTC(year: Int, month: Int, day: Int, hour: Int): Double\n\n        public fun UTC(year: Int,
month: Int, day: Int, hour: Int, minute: Int): Double\n\n        public fun UTC(year: Int, month: Int, day: Int, hour: Int,
minute: Int, second: Int): Double\n\n        public fun UTC(year: Int,
month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number): Double\n    }\n\n    public interface
LocaleOptions {\n        public var localeMatcher: String?\n\n        public var timeZone: String?\n\n        public var
hour12: Boolean?\n\n        public var formatMatcher: String?\n\n        public var weekday: String?\n\n        public var
era: String?\n\n        public var year: String?\n\n        public var month: String?\n\n        public var day: String?\n\n
        public var hour: String?\n\n        public var minute: String?\n\n        public var second: String?\n\n        public var
timeZoneName: String?\n    }\n}\n\npublic inline fun dateLocaleOptions(init: Date.LocaleOptions.() -> Unit):

```



```

use 'kotlinx.dom.isText' instead.\",\n  replaceWith = ReplaceWith(\"this.isText\",
\"kotlinx.dom.isText(\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic val
Node.isText: Boolean\n  inline get() = this.newIsText\n\n/**\n * Gets a value indicating whether this node is an
[Element].\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = \"This API is moved to
another package, use 'kotlinx.dom.isElement' instead.\",\n  replaceWith = ReplaceWith(\"this.isElement\",
\"kotlinx.dom.isElement(\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic val
Node.isElement: Boolean\n  inline get() = this.newIsElement\n\n\"/>\n
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is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.dom\nimport org.w3c.dom.Element\nimport org.w3c.dom.Node\nimport
kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.appendText as newAppendText\nimport
kotlin.dom.clear as newClear\n\n/**\n * Removes all the children from this node.\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = \"This API is moved to another package,
use 'kotlinx.dom.clear' instead.\",\n  replaceWith = ReplaceWith(\"this.clear()\",
\"kotlinx.dom.clear(\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic inline fun
Node.clear() = this.newClear()\n\n/**\n * Creates text node and append it to the element.\n */\n@return this
element\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = \"This API is moved to another
package, use 'kotlinx.dom.appendText' instead.\",\n  replaceWith = ReplaceWith(\"this.appendText(text)\",
\"kotlinx.dom.appendText(\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline fun
Element.appendText(text: String): Element = this.newAppendText(text)\n\n\"/>\n
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s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Reinterprets this value
as a value of the [dynamic type](/docs/reference/dynamic-type.html).\n */\n@kotlin.internal.InlineOnly\npublic
inline fun Any?.asDynamic(): dynamic = this\n\n/**\n * Reinterprets this value as a value of the specified type [T]
without any actual type checking.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Any?.unsafeCast():
@kotlin.internal.NoInfer T = this.asDynamic()\n\n/**\n * Reinterprets this `dynamic` value as a value
of the specified type [T] without any actual type checking.\n */\n@kotlin.internal.DynamicExtension\n@JsName(\"unsafeCastDynamic\")\n@kotlin.internal.InlineOnly\npublic
inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\n\n/**\n * Allows to iterate this `dynamic`
object in the following cases:\n * - when it has an `iterator` function,\n * - when it is an array\n * - when it is an
instance of [kotlin.collections.Iterable]\n */\n@kotlin.internal.DynamicExtension\npublic operator fun
dynamic.iterator(): Iterator<dynamic> {\n  val r: Any? = this\n  return when {\n    this[\"iterator\"] != null ->\n
    this[\"iterator\"]()\n    isArrayish(r) ->\n    r.unsafeCast<Array<*>>().iterator()\n    else ->\n
    (r as Iterable<*>).iterator()\n  }\n}\n\n\"/>\n
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Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt
file.\n */\n\npackage kotlin.enums\n\n// Unused stub\ninternal actual class EnumEntriesSerializationProxy<E :
Enum<E>> actual constructor(entries: Array<E>)\n\n\"/>\n
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Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the
module\n@JsName(\"throwNPE\")\ninternal fun throwNPE(message: String) {\n  throw
NullPointerException(message)\n}\n@JsName(\"throwCCE\")\ninternal fun throwCCE() {\n  throw
ClassCastException(\"Illegal cast\")\n}\n@JsName(\"throwISE\")\ninternal fun throwISE(message: String) {\n  throw
IllegalStateException(message)\n}\n@JsName(\"throwUPAE\")\ninternal fun throwUPAE(propertyName:
String) {\n  throw UninitializedPropertyAccessException(\"lateinit property ${propertyName} has not been
initialized\")\n}\n\n\"/>\n
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by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage

```



```

kotlin.collections\n\n**\n * Groups elements from the [Grouping] source by key and counts elements in each
group.\n\n * @return a [Map] associating the key of each group with the count of elements in the group.\n\n *
@sample samples.collections.Grouping.groupingByEachCount\n\n * Since Kotlin("1.1")\n\n public actual fun <T,
K> Grouping<T, K>.eachCount(): Map<K, Int> =\n\n fold(0) { acc, _ -> acc + 1 }\n\n\n**\n * Groups elements
from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each
group.\n\n * @return a [Map] associating the key of each group with the count of element in the group.\n\n
*\n\n * Since Kotlin("1.1")\n\n public inline fun <T, K> Grouping<T, K>.eachSumOf(valueSelector: (T) -> Int):
Map<K, Int> =\n\n fold(0)
{ acc, e -> acc + valueSelector(e) }\n\n\n**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n\n
*\n\n @file:kotlin.jvm.JvmName("GroupingKt")\n\n @file:kotlin.jvm.JvmMultifileClass\n\n npackage
kotlin.collections\n\n**\n * Represents a source of elements with a [keyOf] function, which can be applied to each
element to get its key.\n\n * A [Grouping] structure serves as an intermediate step in group-and-fold operations:\n\n
* they group elements by their keys and then fold each group with some aggregating operation.\n\n * It is created
by attaching `keySelector: (T) -> K` function to a source of elements.\n\n * To get an instance of [Grouping] use one
of `groupingBy` extension functions:\n\n * - [Iterable.groupingBy]\n\n * - [Sequence.groupingBy]\n\n * -
[Array.groupingBy]\n\n * - [CharSequence.groupingBy]\n\n * For the list of group-and-fold
operations available, see the [extension functions](#extension-functions) for `Grouping`.\n\n
*\n\n * Since Kotlin("1.1")\n\n public interface Grouping<T, out K> {\n\n /** Returns an [Iterator] over the elements of
the source of this grouping. *\n\n fun sourceIterator(): Iterator<T>\n\n /** Extracts the key of an [element]. *\n\n
fun keyOf(element: T): K\n\n\n**\n * Groups elements from the [Grouping] source by key and applies [operation]
to the elements of each group sequentially,\n\n * passing the previously accumulated value and the current element as
arguments, and stores the results in a new map.\n\n * The key for each element is provided by the
[Grouping.keyOf] function.\n\n * @param operation function is invoked on each element with the following
parameters:\n\n * - `key`: the key of the group this element belongs to;\n\n * - `accumulator`: the current value of the
accumulator of the group, can be `null` if it's the first `element` encountered in the group;\n\n * - `element`:
the element from the source being aggregated;\n\n * - `first`: indicates whether it's the first `element` encountered in
the group.\n\n * @return a [Map] associating the key of each group with the result of aggregation of the group
elements.\n\n * @sample samples.collections.Grouping.aggregateByRadix\n\n * Since Kotlin("1.1")\n\n public inline
fun <T, K, R> Grouping<T, K>.aggregate(\n\n operation: (key: K, accumulator: R?, element: T, first: Boolean) ->
R\n\n): Map<K, R> {\n\n return aggregateTo(mutableMapOf<K, R>(), operation)\n\n}\n\n\n**\n * Groups elements
from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n\n * passing
the previously accumulated value and the current element as arguments,\n\n * and stores the results in the given
[destination] map.\n\n * The key for each element is provided by the [Grouping.keyOf] function.\n\n * @param
operation a function that is invoked on each element with the following parameters:\n\n * - `key`: the
key of the group this element belongs to;\n\n * - `accumulator`: the current value of the accumulator of the group,
can be `null` if it's the first `element` encountered in the group;\n\n * - `element`: the element from the source being
aggregated;\n\n * - `first`: indicates whether it's the first `element` encountered in the group.\n\n * If the
[destination] map already has a value corresponding to some key,\n\n * then the elements being aggregated for that
key are never considered as `first`.\n\n * @return the [destination] map associating the key of each group with the
result of aggregation of the group elements.\n\n * @sample samples.collections.Grouping.aggregateByRadixTo\n\n
*\n\n * Since Kotlin("1.1")\n\n public inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T,
K>.aggregateTo(\n\n destination: M,\n\n operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n\n): M
{\n\n for (e in this.sourceIterator()) {\n\n val key = keyOf(e)\n\n val accumulator = destination[key]\n\n
destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))\n\n
}\n\n return destination\n\n}\n\n\n**\n * Groups elements from the [Grouping] source by key and applies [operation] to
the elements of each group sequentially,\n\n * passing the previously accumulated value and the current element as

```

arguments, and stores the results in a new map.

- \* An initial value of accumulator is provided by [initialValueSelector] function.
- \* @param initialValueSelector a function that provides an initial value of accumulator for each group.
- \* It's invoked with parameters:
  - \* - `key`: the key of the group;
  - \* - `element`: the first element being encountered in that group.
- \* @param operation a function that is invoked on each element with the following parameters:
  - \* - `key`: the key of the group this element belongs to;
  - \* - `accumulator`: the current value of the accumulator of the group;
  - \* - `element`: the element from the source being accumulated.
- \* @return a [Map] associating the key of each group with the result of accumulating the group elements.
- \* @sample

```

samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue
*/
@SinceKotlin("1.1")
public inline fun <T, K, R> Grouping<T, K>.fold(
    initialValueSelector: (key: K, element: T) -> R,
    operation: (key: K, accumulator: R, element: T) -> R): Map<K, R> =
    @Suppress("UNCHECKED_CAST")
    aggregate {
        key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e)
    }
*/
*/ Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,
passing the previously accumulated value and the current element as arguments,
and stores the results in the given [destination] map.
An initial value of accumulator is provided by [initialValueSelector] function.
@param initialValueSelector a function that provides
an initial value of accumulator for each group.
It's invoked with parameters:
- `key`: the key of the group;
- `element`: the first element being encountered in that group.
If the [destination] map already has a value corresponding to some key, that value is used as an initial value of
the accumulator for that group and the [initialValueSelector] function is not called for that group.
@param operation a function that is invoked on each element with the following parameters:
- `key`: the key of the group this element belongs to;
- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated.
@return the [destination] map associating the key of each group with the result of accumulating the group elements.
@sample
samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo
*/
@SinceKotlin("1.1")
public inline fun <T, K, R, M : MutableMap<in K, R>>
    Grouping<T, K>.foldTo(
        destination: M,
        initialValueSelector: (key: K, element: T) -> R,
        operation: (key: K, accumulator: R, element: T) -> R): M =
        @Suppress("UNCHECKED_CAST")
        aggregateTo(destination) { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e)
    }
*/
*/ Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,
passing the previously accumulated value and the current element as arguments, and stores the results in a new map.
An initial value of accumulator is the same [initialValue] for each group.
@param operation a function that is invoked on each element with the following parameters:
- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated.
@return a [Map] associating the key of each group with the result of accumulating the group elements.
*/
@sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue
*/
@SinceKotlin("1.1")
public inline fun <T, K, R> Grouping<T, K>.fold(
    initialValue: R,
    operation: (accumulator: R, element: T) -> R): Map<K, R> =
    @Suppress("UNCHECKED_CAST")
    aggregate { _, acc, e, first -> operation(if (first) initialValue else acc as R, e)
}
*/
*/ Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,
passing the previously accumulated value and the current element as arguments,
and stores the results in the given [destination] map.
An initial value of accumulator is the same [initialValue] for each group.
If the [destination] map already has a value corresponding to the key of some group,
that value is used as an initial value of the accumulator for that group.
@param operation a function that is invoked on each element with the following parameters:
- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated.
@return the [destination] map associating the key of each group with the result of accumulating the group elements.
@sample

```





```

String\n    public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space:
String): String\n    public fun stringify(o: Any?, replacer: Array<String>): String\n    public fun stringify(o: Any?,
replacer: Array<String>, space: Int): String\n    public fun stringify(o: Any?, replacer: Array<String>, space:
String): String\n\n    public fun <T> parse(text: String): T\n    public fun <T> parse(text: String, reviver: ((key:
String, value: Any?) -> Any?): T)\n\n", "/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\npackage kotlin.math\n\nimport kotlin.internal.InlineOnly\nimport kotlin.js.JsMath
as nativeMath\n\n// region ===== Double Math
=====
\n\n/** Computes the sine of the angle [x] given in
radians.\n * \n * Special cases:\n * - `sin(NaN|+Inf|-Inf)`
is `NaN`\n * \n * @SinceKotlin("1.2")\n * @InlineOnly\n * public actual inline fun sin(x: Double): Double =
nativeMath.sin(x)\n * \n * Computes the cosine of the angle [x] given in radians.\n * \n * Special cases:\n * -
`cos(NaN|+Inf|-Inf)` is `NaN`\n * \n * @SinceKotlin("1.2")\n * @InlineOnly\n * public actual inline fun cos(x: Double):
Double = nativeMath.cos(x)\n * \n * Computes the tangent of the angle [x] given in radians.\n * \n * Special cases:\n
* - `tan(NaN|+Inf|-Inf)` is `NaN`\n * \n * @SinceKotlin("1.2")\n * @InlineOnly\n * public actual inline fun tan(x:
Double): Double = nativeMath.tan(x)\n * \n * Computes the arc sine of the value [x];\n * the returned value is an
angle in the range from `-PI/2` to `PI/2` radians.\n * \n * Special cases:\n * - `asin(x)` is `NaN`, when `abs(x) > 1`
or x is `NaN`\n * \n * @SinceKotlin("1.2")\n * @InlineOnly\n * public actual inline fun asin(x: Double): Double =
nativeMath.asin(x)\n * \n * Computes the arc cosine of the value [x];\n * the returned
value is an angle in the range from `0.0` to `PI` radians.\n * \n * Special cases:\n * - `acos(x)` is `NaN`, when
`abs(x) > 1` or x is `NaN`\n * \n * @SinceKotlin("1.2")\n * @InlineOnly\n * public actual inline fun acos(x: Double):
Double = nativeMath.acos(x)\n * \n * Computes the arc tangent of the value [x];\n * the returned value is an angle
in the range from `-PI/2` to `PI/2` radians.\n * \n * Special cases:\n * - `atan(NaN)` is `NaN`\n * \n *
@SinceKotlin("1.2")\n * @InlineOnly\n * public actual inline fun atan(x: Double): Double =
nativeMath.atan(x)\n * \n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the
rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle
in the range from `-PI` to `PI` radians.\n * \n * Special cases:\n * - `atan2(0.0, 0.0)` is `0.0`\n * - `atan2(0.0, x)` is
`0.0` for `x > 0` and `PI` for `x < 0`\n * - `atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI`
for `x < 0`\n * - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0`\n * - `atan2(y, -Inf)` is `PI`
for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n * - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n * -
`atan2(+Inf, x)` is `PI/2` for finite `x`\n * - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n * - `atan2(NaN, x)` and
`atan2(y, NaN)` is `NaN`\n * \n * @SinceKotlin("1.2")\n * @InlineOnly\n * public actual inline fun atan2(y: Double, x:
Double): Double = nativeMath.atan2(y, x)\n * \n * Computes the hyperbolic sine of the value [x].\n * \n * Special
cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is `+Inf`\n * - `sinh(-Inf)` is `-Inf`\n * \n *
@SinceKotlin("1.2")\n * @InlineOnly\n * public actual inline fun sinh(x: Double): Double = nativeSinh(x)\n * \n *
Computes the hyperbolic cosine of the value [x].\n * \n * Special cases:\n * - `cosh(NaN)` is `NaN`\n * -
`cosh(+Inf|-Inf)` is `+Inf`\n * \n * @SinceKotlin("1.2")\n * @InlineOnly\n * public
actual inline fun cosh(x: Double): Double = nativeCosh(x)\n * \n * Computes the hyperbolic tangent of the value
[x].\n * \n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `1.0`\n * - `tanh(-Inf)` is `-1.0`\n * \n *
@SinceKotlin("1.2")\n * @InlineOnly\n * public actual inline fun tanh(x: Double): Double =
nativeTanh(x)\n * \n * Computes the inverse hyperbolic sine of the value [x].\n * \n * The returned value is `y`
such that `sinh(y) == x`.\n * \n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * -
`asinh(-Inf)` is `-Inf`\n * \n * @SinceKotlin("1.2")\n * @InlineOnly\n * public actual inline fun asinh(x: Double): Double =
nativeAsinh(x)\n * \n * Computes the inverse hyperbolic cosine of the value [x].\n * \n * The returned value is
positive `y` such that `cosh(y) == x`.\n * \n * Special cases:\n * - `acosh(NaN)` is `NaN`\n * - `acosh(x)` is `NaN`
when `x < 1`\n * - `acosh(+Inf)` is `+Inf`\n * \n * @SinceKotlin("1.2")\n * @InlineOnly\n * public
actual inline fun acosh(x: Double): Double = nativeAcosh(x)\n * \n * Computes the inverse hyperbolic tangent of
the value [x].\n * \n * The returned value is `y` such that `tanh(y) == x`.\n * \n * Special cases:\n * - `tanh(NaN)` is

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`NaN` * - `tanh(x)` is `NaN` when `x > 1` or `x < -1` * - `tanh(1.0)` is `+Inf` * - `tanh(-1.0)` is `-Inf`
*/n@SinceKotlin("1.2")n@InlineOnlynpublic actual inline fun atanh(x: Double): Double =
nativeAtanh(x)n/n/**n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.n *n * Special
cases:n * - returns `+Inf` if any of arguments is infinite/n * - returns `NaN` if any of arguments is `NaN` and the
other is not infinite*/n@SinceKotlin("1.2")n@InlineOnlynpublic actual inline fun hypot(x: Double, y:
Double): Double = nativeHypot(x, y)n/n/**n * Computes the positive square root of the value [x].n *n * Special
cases:n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`*/n@SinceKotlin("1.2")n@InlineOnlynpublic
actual inline fun sqrt(x: Double): Double = nativeMath.sqrt(x)n/n/**n * Computes Euler's number `e` raised to the
power of the value [x].n *n * Special cases:n * - `exp(NaN)` is `NaN` * - `exp(+Inf)` is `+Inf` * - `exp(-
Inf)` is `0.0`*/n@SinceKotlin("1.2")n@InlineOnlynpublic actual inline fun exp(x: Double): Double =
nativeMath.exp(x)n/n/**n * Computes `exp(x) - 1`.n *n * This function can be implemented to produce more
precise result for [x] near zero.n *n * Special cases:n * - `expm1(NaN)` is `NaN` * - `expm1(+Inf)` is `+Inf` *n
* - `expm1(-Inf)` is `-1.0` *n * @see [exp] function.n */n@SinceKotlin("1.2")n@InlineOnlynpublic actual
inline fun expm1(x: Double): Double = nativeExpml(x)n/n/**n * Computes the logarithm of the value [x] to the
given [base].n *n * Special cases:n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN` * - `log(x, b)` is
`NaN` when `x < 0` or `b <= 0` or `b == 1.0` * -
`log(+Inf, +Inf)` is `NaN` * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1` * - `log(0.0, b)` is `-Inf`
for `b > 1` and `+Inf` for `b > 1` *n * See also logarithm functions for common fixed bases: [ln], [log10] and
[log2].n */n@SinceKotlin("1.2")n@InlineOnlynpublic actual fun log(x: Double, base: Double): Double {n if (base <= 0.0 ||
base == 1.0) return Double.NaN return nativeMath.log(x) / nativeMath.log(base)n }n/n/**n * Computes the
natural logarithm (base `E`) of the value [x].n *n * Special cases:n * - `ln(NaN)` is `NaN` * - `ln(x)` is `NaN`
when `x < 0.0` * - `ln(+Inf)` is `+Inf` * - `ln(0.0)` is `-Inf`*/n@SinceKotlin("1.2")n@InlineOnlynpublic
actual inline fun ln(x: Double): Double = nativeMath.log(x)n/n/**n * Computes the common logarithm (base 10)
of the value [x].n *n * @see [ln] function for special cases.n */n@SinceKotlin("1.2")n@InlineOnlynpublic
actual inline fun log10(x: Double): Double = nativeLog10(x)n/n/**n
* Computes the binary logarithm (base 2) of the value [x].n *n * @see [ln] function for special cases.n
*/n@SinceKotlin("1.2")n@InlineOnlynpublic actual inline fun log2(x: Double): Double =
nativeLog2(x)n/n/**n * Computes `ln(x + 1)`.n *n * This function can be implemented to produce more precise
result for [x] near zero.n *n * Special cases:n * - `ln1p(NaN)` is `NaN` * - `ln1p(x)` is `NaN` where `x < -
1.0` * - `ln1p(-1.0)` is `-Inf` * - `ln1p(+Inf)` is `+Inf` *n * @see [ln] function * @see [expm1] function*/n
@SinceKotlin("1.2")n@InlineOnlynpublic actual inline fun ln1p(x: Double): Double =
nativeLog1p(x)n/n/**n * Rounds the given value [x] to an integer towards positive infinity.n *n * @return the
smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.n *n *
Special cases:n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.n
*/n@SinceKotlin("1.2")n@InlineOnlynpublic
actual inline fun ceil(x: Double): Double = nativeMath.ceil(x)n/n/**n * Rounds the given value [x] to an integer
towards negative infinity.n *n * @return the largest double value that is smaller than or equal to the given value [x]
and is a mathematical integer.n *n * Special cases:n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or
already a mathematical integer.n */n@SinceKotlin("1.2")n@InlineOnlynpublic actual inline fun floor(x:
Double): Double = nativeMath.floor(x)n/n/**n * Rounds the given value [x] to an integer towards zero.n *n *
@return the value [x] having its fractional part truncated.n *n * Special cases:n * - `truncate(x)` is `x` where `x`
is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.n */n@SinceKotlin("1.2")n@InlineOnlynpublic
actual inline fun truncate(x: Double): Double = nativeTrunc(x)n/n/**n * Rounds the given value [x] towards the
closest integer with ties rounded towards
even integer.n *n * Special cases:n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a
mathematical integer.n */n@SinceKotlin("1.2")n@InlineOnlynpublic actual fun round(x: Double): Double {n if (x % 0.5 !=
0.0) {n return nativeMath.round(x)n }n val floor = floor(x)n return if (floor % 2 == 0.0) floor else
ceil(x)n }n/n/**n * Returns the absolute value of the given value [x].n *n * Special cases:n * - `abs(NaN)` is

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`NaN` \n * \n * @see absoluteValue extension property for [Double] \n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun abs(x: Double): Double =
nativeMath.abs(x)\n\n/** \n * Returns the sign of the given value [x]: \n * - `1.0` if the value is negative, \n * - zero if the value is zero, \n * - `1.0` if the value is positive \n * \n * Special case: \n * - `sign(NaN)` is `NaN` \n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sign(x: Double): Double =
nativeSign(x)\n\n/** \n * Returns the smaller
of two values. \n * \n * If either value is `NaN`, then the result is `NaN`. \n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Double, b: Double): Double =
nativeMath.min(a, b)\n\n/** \n * Returns the greater of two values. \n * \n * If either value is `NaN`, then the result is
`NaN`. \n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Double, b: Double): Double =
nativeMath.max(a, b)\n\n/** \n * Returns the cube root of [x]. For any `x`, `cbrt(-x) == -cbrt(x)`; \n * that is, the
cube root of a negative value is the negative of the cube root \n * of that value's magnitude. Special cases: \n * \n *
Special cases: \n * - If the argument is `NaN`, then the result is `NaN`. \n * - If the argument is infinite, then the
result is an infinity with the same sign as the argument. \n * - If the argument is zero, then the result is a zero with
the same sign as the argument. \n
*\n@SinceKotlin("1.8")\n@WasExperimental(ExperimentalStdlibApi::class)\n@InlineOnly\npublic
actual inline fun cbrt(x: Double): Double = nativeMath.cbrt(x)\n\n// extensions \n\n/** \n * Raises this value to the
power [x]. \n * \n * Special cases: \n * - `b.pow(0.0)` is `1.0` \n * - `b.pow(1.0) == b` \n * - `b.pow(NaN)` is
`NaN` \n * - `NaN.pow(x)` is `NaN` for `x != 0.0` \n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0` \n * - `b.pow(x)`
is `NaN` for `b < 0` and `x` is finite and not an integer \n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual
inline fun Double.pow(x: Double): Double = nativeMath.pow(this, x)\n\n/** \n * Raises this value to the integer
power [n]. \n * \n * See the other overload of [pow] for details. \n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic
actual inline fun Double.pow(n: Int): Double = nativeMath.pow(this, n.toDouble())\n\n/** \n * Returns the absolute
value of this value. \n * \n * Special cases: \n * - `NaN.absoluteValue` is `NaN` \n * \n * @see abs function \n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Double.absoluteValue:
Double get() = nativeMath.abs(this)\n\n/** \n * Returns the sign of this value: \n * - `1.0` if the value is negative, \n
* - zero if the value is zero, \n * - `1.0` if the value is positive \n * \n * Special case: \n * - `NaN.sign` is `NaN` \n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Double.sign: Double get() =
nativeSign(this)\n\n/** \n * Returns this value with the sign bit same as of the [sign] value. \n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Double.withSign(sign: Int): Double =
this.withSign(sign.toDouble())\n\n/** \n * Returns the ulp (unit in the last place) of this value. \n * \n * An ulp is a
positive distance between this value and the next nearest [Double] value larger in magnitude. \n * \n * Special
Cases: \n * - `NaN.ulp` is `NaN` \n * - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf` \n * - `0.0.ulp` is
`Double.MIN_VALUE` \n *\n@SinceKotlin("1.2")\npublic actual val Double.ulp: Double get() = when {\n    this
< 0 -> (-this).ulp\n    this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n    this ==
Double.MAX_VALUE -> this - this.nextDown()\n    else -> this.nextUp() - this\n}\n\n/** \n * Returns the [Double]
value nearest to this value in direction of positive infinity. \n *\n@SinceKotlin("1.2")\npublic actual fun
Double.nextUp(): Double = when {\n    this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n    this == 0.0
-> Double.MIN_VALUE\n    else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)\n}\n\n/** \n *
Returns the [Double] value nearest to this value in direction of negative infinity. \n
*\n@SinceKotlin("1.2")\npublic actual fun Double.nextDown(): Double = when {\n    this.isNaN() || this ==
Double.NEGATIVE_INFINITY -> this\n    this == 0.0 -> -Double.MIN_VALUE\n    else ->
Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)\n}\n\n/** \n * Returns the [Double] value nearest to this
value in direction from this value towards the value [to]. \n * \n *
Special cases: \n * - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN` \n * - `x.nextTowards(x) == x` \n
*\n@SinceKotlin("1.2")\npublic actual fun Double.nextTowards(to: Double): Double = when {\n    this.isNaN() ||
to.isNaN() -> Double.NaN\n    to == this -> to\n    to > this -> this.nextUp()\n    else /* to < this */ ->
this.nextDown()\n}\n\n/** \n * Rounds this [Double] value to the nearest integer and converts the result to [Int]. \n

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\* Ties are rounded towards positive infinity.  
 \* Special cases:  $x.\text{roundToInt}() == \text{Int.MAX\_VALUE}$  when  $x > \text{Int.MAX\_VALUE}$   
 $x.\text{roundToInt}() == \text{Int.MIN\_VALUE}$  when  $x < \text{Int.MIN\_VALUE}$   
 \* @throws IllegalArgumentException when this value is NaN  
 \* Since Kotlin("1.2")  
 \* public actual fun Double.roundToInt(): Int = when {  
   isNaN() -> throw IllegalArgumentException("Cannot round NaN value.")  
   this > Int.MAX\_VALUE -> Int.MAX\_VALUE  
   this < Int.MIN\_VALUE -> Int.MIN\_VALUE  
   else -> nativeMath.round(this).toInt()  
 }  
 \* Rounds this [Double] value to the nearest integer and converts the result to [Long].  
 \* Ties are rounded towards positive infinity.  
 \* Special cases:  $x.\text{roundToLong}() == \text{Long.MAX\_VALUE}$  when  $x > \text{Long.MAX\_VALUE}$   
 $x.\text{roundToLong}() == \text{Long.MIN\_VALUE}$  when  $x < \text{Long.MIN\_VALUE}$   
 \* @throws IllegalArgumentException when this value is NaN  
 \* Since Kotlin("1.2")  
 \* public actual fun Double.roundToLong(): Long = when {  
   isNaN() -> throw IllegalArgumentException("Cannot round NaN value.")  
   this > Long.MAX\_VALUE -> Long.MAX\_VALUE  
   this < Long.MIN\_VALUE -> Long.MIN\_VALUE  
   else -> nativeMath.round(this).toLong()  
 }  
 // endregion  
 // region  
 ===== Float Math =====  
 \* Computes the sine of the angle [x] given in radians.  
 \* Special cases:  $\sin(\text{NaN}|\pm\text{Inf}|\text{Inf})$  is NaN  
 \* Since Kotlin("1.2")  
 \* @InlineOnly  
 \* public actual inline fun sin(x: Float): Float = nativeMath.sin(x.toDouble()).toFloat()  
 \* Computes the cosine of the angle [x] given in radians.  
 \* Special cases:  $\cos(\text{NaN}|\pm\text{Inf}|\text{Inf})$  is NaN  
 \* Since Kotlin("1.2")  
 \* @InlineOnly  
 \* public actual inline fun cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()  
 \* Computes the tangent of the angle [x] given in radians.  
 \* Special cases:  $\tan(\text{NaN}|\pm\text{Inf}|\text{Inf})$  is NaN  
 \* Since Kotlin("1.2")  
 \* @InlineOnly  
 \* public actual inline fun tan(x: Float): Float = nativeMath.tan(x.toDouble()).toFloat()  
 \* Computes the arc sine of the value [x]; the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.  
 \* Special cases:  $\text{asin}(x)$  is NaN, when  $abs(x) > 1$  or x is NaN  
 \* Since Kotlin("1.2")  
 \* @InlineOnly  
 \* public actual inline fun asin(x: Float): Float = nativeMath.asin(x.toDouble()).toFloat()  
 \* Computes the arc cosine of the value [x]; the returned value is an angle in the range from  $0.0$  to  $\pi$  radians.  
 \* Special cases:  $\text{acos}(x)$  is NaN, when  $abs(x) > 1$  or x is NaN  
 \* Since Kotlin("1.2")  
 \* @InlineOnly  
 \* public actual inline fun acos(x: Float): Float = nativeMath.acos(x.toDouble()).toFloat()  
 \* Computes the arc tangent of the value [x]; the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.  
 \* Special cases:  $\text{atan}(\text{NaN})$  is NaN  
 \* Since Kotlin("1.2")  
 \* @InlineOnly  
 \* public actual inline fun atan(x: Float): Float = nativeMath.atan(x.toDouble()).toFloat()  
 \* Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond to the rectangular coordinates `(x, y)` by computing the arc tangent of the value  $y / x$ ; the returned value is an angle in the range from  $-\pi$  to  $\pi$  radians.  
 \* Special cases:  $\text{atan2}(0.0, 0.0)$  is  $0.0$   
 $\text{atan2}(0.0, x)$  is  $0.0$  for  $x > 0$  and  $\pi$  for  $x < 0$   
 $\text{atan2}(-0.0, x)$  is  $-0.0$  for  $x > 0$  and  $-\pi$  for  $x < 0$   
 $\text{atan2}(y, +\text{Inf})$  is  $0.0$  for  $0 < y < +\text{Inf}$  and  $-0.0$  for  $-\text{Inf} < y < 0$   
 $\text{atan2}(y, -\text{Inf})$  is  $\pi$  for  $0 < y < +\text{Inf}$  and  $-\pi$  for  $-\text{Inf} < y < 0$   
 $\text{atan2}(y, 0.0)$  is  $\pi/2$  for  $y > 0$  and  $-\pi/2$  for  $y < 0$   
 $\text{atan2}(+\text{Inf}, x)$  is  $\pi/2$  for finite  $x$   
 $\text{atan2}(-\text{Inf}, x)$  is  $-\pi/2$  for finite  $x$   
 $\text{atan2}(\text{NaN}, x)$  and  $\text{atan2}(y, \text{NaN})$  is NaN  
 \* Since Kotlin("1.2")  
 \* @InlineOnly  
 \* public actual inline fun atan2(y: Float, x: Float): Float = nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()  
 \* Computes the hyperbolic sine of the value [x].  
 \* Special cases:  $\sinh(\text{NaN})$  is NaN  
 $\sinh(+\text{Inf})$  is  $+\text{Inf}$   
 $\sinh(-\text{Inf})$  is  $-\text{Inf}$   
 \* Since Kotlin("1.2")  
 \* @InlineOnly  
 \* public actual inline fun sinh(x: Float): Float = nativeSinh(x.toDouble()).toFloat()  
 \* Computes the hyperbolic cosine of the value [x].  
 \* Special cases:  $\cosh(\text{NaN})$  is NaN  
 $\cosh(+\text{Inf}|\text{Inf})$  is  $+\text{Inf}$   
 \* Since Kotlin("1.2")  
 \* @InlineOnly  
 \* public actual inline fun cosh(x: Float): Float = nativeCosh(x.toDouble()).toFloat()  
 \* Computes the hyperbolic tangent of the value [x].  
 \* Special cases:  $\tanh(\text{NaN})$  is NaN  
 $\tanh(+\text{Inf})$  is  $1.0$   
 $\tanh(-\text{Inf})$  is  $-1.0$   
 \* Since Kotlin("1.2")  
 \* @InlineOnly  
 \* public actual inline fun tanh(x: Float): Float =



`nativeTanh(x.toDouble()).toFloat()` Computes the inverse hyperbolic sine of the value [x]. The returned value is `y` such that `sinh(y) == x`. Special cases: `sinh(NaN)` is `NaN` - `sinh(+Inf)` is `+Inf` - `sinh(-Inf)` is `-Inf`.

`nativeAsinh(x: Float): Float = nativeAsinh(x.toDouble()).toFloat()` Computes the inverse hyperbolic cosine of the value [x]. The returned value is positive `y` such that `cosh(y) == x`. Special cases: `acosh(NaN)` is `NaN` - `acosh(x)` is `NaN` when `x < 1` - `acosh(+Inf)` is `+Inf`.

`nativeAcosh(x: Float): Float = nativeAcosh(x.toDouble()).toFloat()` Computes the inverse hyperbolic tangent of the value [x]. The returned value is `y` such that `tanh(y) == x`. Special cases: `tanh(NaN)` is `NaN` - `tanh(x)` is `NaN` when `x > 1` or `x < -1` - `tanh(1.0)` is `+Inf` - `tanh(-1.0)` is `-Inf`.

`nativeAtanh(x: Float): Float = nativeAtanh(x.toDouble()).toFloat()` Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow. Special cases: returns `+Inf` if any of arguments is infinite - returns `NaN` if any of arguments is `NaN` and the other is not infinite.

`nativeHypot(x: Float, y: Float): Float = nativeHypot(x.toDouble(), y.toDouble()).toFloat()` Computes the positive square root of the value [x]. Special cases: `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`.

`nativeMath.sqrt(x.toDouble()).toFloat()` Computes Euler's number `e` raised to the power of the value [x]. Special cases: `exp(NaN)` is `NaN` - `exp(+Inf)` is `+Inf` - `exp(-Inf)` is `0.0`.

`nativeMath.exp(x.toDouble()).toFloat()` Computes `exp(x) - 1`. This function can be implemented to produce more precise result for [x] near zero. Special cases: `expm1(NaN)` is `NaN` - `expm1(+Inf)` is `+Inf` - `expm1(-Inf)` is `-1.0`. @see [exp] function.

`nativeExpM1(x.toDouble()).toFloat()` Computes the logarithm of the value [x] to the given [base]. Special cases: `log(x, b)` is `NaN` if either `x` or `b` are `NaN` - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0` - `log(+Inf, +Inf)` is `NaN` - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1` - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`. See also logarithm functions for common fixed bases: [ln], [log10] and [log2].

`nativeMath.log(x.toDouble(), base.toDouble()).toFloat()` Computes the natural logarithm (base `E`) of the value [x]. Special cases: `ln(NaN)` is `NaN` - `ln(x)` is `NaN` when `x < 0.0` - `ln(+Inf)` is `+Inf` - `ln(0.0)` is `-Inf`.

`nativeMath.log(x.toDouble()).toFloat()` Computes the common logarithm (base 10) of the value [x]. @see [ln] function for special cases.

`nativeLog10(x.toDouble()).toFloat()` Computes the binary logarithm (base 2) of the value [x]. @see [ln] function for special cases.

`nativeLog2(x.toDouble()).toFloat()` Computes `ln(x + 1)`. This function can be implemented to produce more precise result for [x] near zero. Special cases: `ln1p(NaN)` is `NaN` - `ln1p(x)` is `NaN` where `x < -1.0` - `ln1p(-1.0)` is `-Inf` - `ln1p(+Inf)` is `+Inf`. @see [ln] function.

`nativeLog1p(x.toDouble()).toFloat()` Rounds the given value [x] to an integer towards positive infinity.

`nativeCeil(x.toDouble()).toFloat()` @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer. Special cases: `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`nativeMath.ceil(x.toDouble()).toFloat()` Rounds the given value [x] to an integer towards negative infinity.

`@return` the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.

`Special cases:`

- `- floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2") @InlineOnly public actual inline fun floor(x: Float): Float = nativeMath.floor(x.toDouble()).toFloat()`

`Special cases:`

- `- truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2") @InlineOnly public actual inline fun truncate(x: Float): Float = truncate(x.toDouble()).toFloat()`

`Special cases:`

- `- round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2") @InlineOnly public actual inline fun round(x: Float): Float = round(x.toDouble()).toFloat()`

`Returns` the absolute value of the given value [x].

`Special cases:`

- `- abs(NaN)` is `NaN`

`@see` `absoluteValue` extension property for [Float]

`@SinceKotlin("1.2") @InlineOnly public actual inline fun abs(x: Float): Float = nativeMath.abs(x.toDouble()).toFloat()`

`Returns` the sign of the given value [x]:

- `-1.0` if the value is negative,
- `0` if the value is zero,
- `1.0` if the value is positive

`Special case:`

- `- sign(NaN)` is `NaN`

`@SinceKotlin("1.2") @InlineOnly public actual inline fun sign(x: Float): Float = nativeSign(x.toDouble()).toFloat()`

`Returns` the smaller of two values.

- If either value is `NaN`, then the result is `NaN`.

`@SinceKotlin("1.2") @InlineOnly public actual inline fun min(a: Float, b: Float): Float = nativeMath.min(a, b)`

`Returns` the greater of two values.

- If either value is `NaN`, then the result is `NaN`.

`@SinceKotlin("1.2") @InlineOnly public actual inline fun max(a: Float, b: Float): Float = nativeMath.max(a, b)`

`Returns` the cube root of [x]. For any `x`, `cbirt(-x) == -cbirt(x)`; that is, the cube root of a negative value is the negative of the cube root of that value's magnitude.

`Special cases:`

- If the argument is `NaN`, then the result is `NaN`.
- If the argument is infinite, then the result is an infinity with the same sign as the argument.
- If the argument is zero, then the result is a zero with the same sign as the argument.

`@SinceKotlin("1.8") @WasExperimental(ExperimentalStdlibApi::class) @InlineOnly public actual inline fun cbrt(x: Float): Float = nativeMath.cbrt(x.toDouble()).toFloat()`

`extensions`

`Raises` this value to the power [x].

`Special cases:`

- `- b.pow(0.0)` is `1.0`
- `- b.pow(1.0) == b`
- `- b.pow(NaN)` is `NaN`
- `- NaN.pow(x)` is `NaN` for `x != 0.0`
- `- b.pow(Inf)` is `NaN` for `abs(b) == 1.0`
- `- b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer

`@SinceKotlin("1.2") @InlineOnly public actual inline fun Float.pow(x: Float): Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()`

`Raises` this value to the integer power [n].

`See` the other overload of [pow] for details.

`@SinceKotlin("1.2") @InlineOnly public actual inline fun Float.pow(n: Int): Float = nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()`

`Returns` the absolute value of this value.

`Special cases:`

- `- NaN.absoluteValue` is `NaN`

`@see` `abs` function

`@SinceKotlin("1.2") @InlineOnly public actual inline val Float.absoluteValue: Float get() = nativeMath.abs(this.toDouble()).toFloat()`

`Returns` the sign of this value:

- `-1.0` if the value is negative,
- `0` if the value is zero,
- `-1.0` if the value is positive

`Special case:`

- `- NaN.sign` is `NaN`

`@SinceKotlin("1.2") @InlineOnly public actual inline val Float.sign: Float get() = nativeSign(this.toDouble()).toFloat()`

`Returns` this value with the sign bit same as of the [sign] value.

- If [sign] is `NaN` the sign of the result is undefined.

`@SinceKotlin("1.2") @InlineOnly public actual inline fun Float.withSign(sign: Float): Float = this.toDouble().withSign(sign.toDouble()).toFloat()`

`Returns` this value with the sign bit same as of the [sign] value.

`@SinceKotlin("1.2") @InlineOnly public actual inline fun Float.withSign(sign: Int): Float = this.toDouble().withSign(sign.toDouble()).toFloat()`

`Rounds` this [Float] value to the nearest integer and converts the result to [Int].

- Ties are rounded towards positive infinity.

`Special cases:`

- `-`

```

`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE`
when `x < Int.MIN_VALUE`\n * \n * @throws IllegalArgumentException when this value is `NaN`\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToInt(): Int =
toDouble().roundToInt()\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to
[Long].\n * Ties are rounded towards positive infinity.\n * \n * Special cases:\n * - `x.roundToLong() ==
Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE`
when `x < Long.MIN_VALUE`\n * \n * @throws IllegalArgumentException when this value is `NaN`\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToLong(): Long =
toDouble().roundToLong()\n\n// endregion\n\n// region ===== Integer Math
=====
\n\n/**\n * Returns the absolute value of the given value
[n].\n * \n * Special cases:\n * - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n * \n * @see
absoluteValue extension property for [Int]\n * \n // TODO: remove manual 'or' when KT-19290 is
fixed\n@SinceKotlin("1.2")\npublic actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n\n\n/**\n * Returns the
smaller of two values.\n * \n @SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Int, b: Int): Int =
nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a,
b)\n\n/**\n * Returns the absolute value of this value.\n * \n * Special cases:\n * -
`Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n * \n * @see abs function\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Int.absoluteValue: Int get() = abs(this)\n\n/**\n *
Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value
is positive\n * \n @SinceKotlin("1.2")\npublic actual val Int.sign: Int get() = when {\n this < 0 -> -1\n this > 0 -
> 1\n else -> 0\n}\n\n\n/**\n * Returns the absolute value of the given value [n].\n * \n * Special cases:\n * -
`abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n * \n * @see absoluteValue extension
property for [Long]\n * \n @SinceKotlin("1.2")\npublic actual fun abs(n: Long): Long = if (n < 0) -n else
n\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.2")\n@Suppress("NOTHING_TO_INLINE")\npublic actual
inline fun min(a: Long, b: Long): Long = if (a <= b) a else b\n\n/**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.2")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun max(a: Long, b:
Long): Long = if (a >= b) a else b\n\n/**\n * Returns the absolute value of this value.\n * \n * Special cases:\n * -
`Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n * \n * @see abs function\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Long.absoluteValue: Long get() =
abs(this)\n\n/**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n
* - `1` if the value is positive\n * \n @SinceKotlin("1.2")\npublic actual val Long.sign: Int get() = when {\n this
< 0 -> -1\n this > 0 -> 1\n else -> 0\n}\n\n// endregion\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n * \n @package kotlin\n\n/**\n * Returns `true` if the
specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n * \n @public actual fun Double.isNaN():
Boolean = this != this\n\n/**\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false`
otherwise.\n * \n @public actual fun Float.isNaN(): Boolean = this != this\n\n/**\n * Returns `true` if this value is
infinitely large in magnitude.\n * \n @public actual fun Double.isInfinite(): Boolean = this ==
Double.POSITIVE_INFINITY || this == Double.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if this value is
infinitely large in magnitude.\n * \n @public actual fun Float.isInfinite(): Boolean = this ==
Float.POSITIVE_INFINITY || this == Float.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if the argument is a
finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\n * \n @public actual fun
Double.isFinite(): Boolean = !isInfinite()\n * \n && !isNaN()\n\n/**\n * Returns `true` if the argument is a finite floating-point value; returns `false` otherwise (for
`NaN` and infinity arguments).\n * \n @public actual fun Float.isFinite(): Boolean = !isInfinite() &&
!isNaN()\n\n/**\n * Counts the number of set bits in the binary representation of this [Int] number.\n

```

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.countOneBits(): Int {\n // Hacker's Delight 5-1 algorithm\n var v = this\n v = (v and 0x55555555) +
(v.ushr(1) and 0x55555555)\n v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)\n v = (v and 0x0F0F0F0F)
+ (v.ushr(4) and 0x0F0F0F0F)\n v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)\n v = (v and
0x0000FFFF) + (v.ushr(16))\n return v\n}\n\n**\n * Counts the number of consecutive most significant bits that
are zero in the binary representation of this [Int] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c
actual inline fun Int.countLeadingZeroBits(): Int = nativeClz32(this)\n\n**\n * Counts the number of consecutive
least significant bits that are zero in the binary representation of this [Int] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.countTrailingZeroBits(): Int =\n // Hacker's Delight 5-4 algorithm for expressing countTrailingZeroBits with
countLeadingZeroBits\n Int.SIZE_BITS - (this or -this).inv().countLeadingZeroBits()\n\n**\n * Returns a
number having a single bit set in the position of the most significant set bit of this [Int] number,\n * or zero, if this
number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.takeHighestOneBit(): Int =\n if (this == 0) 0 else 1.shl(Int.SIZE_BITS - 1 - countLeadingZeroBits())\n\n**\n *
Returns a number having a single bit set in the position of the least significant
set bit of this [Int] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.takeLowestOneBit(): Int =\n // Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\n this and -
this\n\n**\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of
bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the
right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit
count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32)
returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.rotateLeft(bitCount: Int): Int =\n shl(bitCount) or
ushr(Int.SIZE_BITS - bitCount)\n\n**\n * Rotates the binary representation of this [Int] number right by the
specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number
as the most significant bits on the left side.\n * Rotating the number right by a negative bit count is the same as
rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a
multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) ==
number.rotateRight(n % 32)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.rotateRight(bitCount: Int): Int =\n shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)\n\n**\n * Counts the
number of set bits in the binary representation of this [Long] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countOneBits():
Int =\n high.countOneBits() + low.countOneBits()\n\n**\n * Counts the number of consecutive most significant
bits that are zero in the binary representation of this [Long] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countLeadingZeroBits(): Int =\n when (val high = this.high) {\n 0 -> Int.SIZE_BITS +
low.countLeadingZeroBits()\n else -> high.countLeadingZeroBits()\n }\n\n**\n * Counts the number of
consecutive least significant bits that are zero in the binary representation of this [Long] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countTrailingZeroBits(): Int =\n when (val low = this.low) {\n 0 -> Int.SIZE_BITS +
high.countTrailingZeroBits()\n else -> low.countTrailingZeroBits()\n }\n\n**\n * Returns a number having a
single bit set in the position of the most significant set bit of this [Long] number,\n * or zero,

```

```

if this number is zero.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
actual fun Long.takeHighestOneBit(): Long =\n    when (val high = this.high) {\n        0 ->
Long(low.takeHighestOneBit(), 0)\n        else -> Long(0, high.takeHighestOneBit())\n    }\n\n/**\n * Returns a
number having a single bit set in the position of the least significant set bit of this [Long] number,\n * or zero, if this
number is zero.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.takeLowestOneBit(): Long =\n    when (val low = this.low) {\n        0 -> Long(0, high.takeLowestOneBit())\n
        else -> Long(low.takeLowestOneBit(), 0)\n    }\n\n/**\n * Rotates the binary representation of this [Long]
number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side
reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a
negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) ==
number.rotateRight(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more
generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.rotateLeft(bitCount: Int): Long {\n    if ((bitCount and 31) != 0) {\n        val low = this.low\n        val high =
this.high\n        val newLow = low.shl(bitCount) or high.ushr(-bitCount)\n        val newHigh = high.shl(bitCount) or
low.ushr(-bitCount)\n        return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh,
newLow)\n    } else {\n        return if ((bitCount and 32) == 0) this else Long(high, low)\n    }\n}\n\n/**\n *
Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n * The
least significant bits pushed out from the right
side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative
bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) ==
number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more
generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\n", /*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n@npackage kotlin.js\n\nimport
kotlin.internal.LowPriorityInOverloadResolution\n\n/**\n * Exposes the JavaScript [Promise
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Promise)
to Kotlin.\n *\n@Suppress("NOT_DOCUMENTED")\npublic open external class Promise<out T>(executor:
(resolve: (T) -> Unit, reject: (Throwable) -> Unit) -> Unit) {\n    @LowPriorityInOverloadResolution\n    public
open fun <S> then(onFulfilled: ((T) -> S)?): Promise<S>\n\n    @LowPriorityInOverloadResolution\n    public open
fun <S> then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>\n\n    public open fun <S>
catch(onRejected: (Throwable) -> S): Promise<S>\n\n    public open fun finally(onFinally: () -> Unit):
Promise<T>\n\n    companion object {\n        public fun <S> all(promise: Array<out Promise<S>>):
Promise<Array<out S>>\n\n        public fun <S> race(promise: Array<out Promise<S>>): Promise<S>\n\n
        public fun reject(e: Throwable): Promise<Nothing>\n\n        public fun <S> resolve(e: S): Promise<S>\n
        public
fun <S> resolve(e: Promise<S>): Promise<S>\n    }\n}\n\n// It's workaround for KT-19672 since we can fix it
properly until KT-11265 isn't fixed.\n\ninline fun <T, S> Promise<Promise<T>>.then(\n    noinline onFulfilled: ((T) -
> S)?\n): Promise<S> {\n    return this.unsafeCast<Promise<T>>().then(onFulfilled)\n}\n\ninline fun <T, S>
Promise<Promise<T>>.then(\n    noinline onFulfilled: ((T) -> S)?,\n    noinline onRejected: ((Throwable) -> S)?\n):
Promise<S> {\n    return this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)\n}\n", /*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n@npackage
kotlin.random\n\nimport kotlin.math.pow\n\ninternal actual fun defaultPlatformRandom(): Random =\n    Random(js("Math.random() * Math.pow(2, 32)) | 0").unsafeCast<Int>())\n\nprivate val INV_2_26: Double =
2.0.pow(-26)\nprivate val INV_2_53: Double = 2.0.pow(-53)\n\ninternal actual fun doubleFromParts(hi26: Int, low27:
Int): Double =\n    hi26

```

```

* INV_2_26 + low27 * INV_2_53", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\nimport findAssociatedObject\n\n/**\n * The
experimental marker for associated objects API.\n */\n * Any usage of a declaration annotated with
`@ExperimentalAssociatedObjects` must be accepted either by\n * annotating that usage with the [OptIn]
annotation, e.g. `@OptIn(ExperimentalAssociatedObjects::class)`,\n * or by using the compiler argument `-opt-
in=kotlin.reflect.ExperimentalAssociatedObjects`.\n */\n\n@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n@Retention(value = AnnotationRetention.BINARY)\n\npublic annotation class
ExperimentalAssociatedObjects\n\n/**\n * Makes the annotated annotation class an associated object key.\n */\n *
An associated object key annotation should have single [KClass] parameter.\n * When
applied to a class with reference to an object declaration as an argument, it binds\n * the object to the class, making
this binding discoverable at runtime using [findAssociatedObject].\n\n
*/\n\n@ExperimentalAssociatedObjects\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.A
NNOTATION_CLASS)\n\npublic annotation class AssociatedObjectKey\n\n/**\n * If [T] is an
@[AssociatedObjectKey]-annotated annotation class and [this] class is annotated with @[T] (`S::class`),\n * returns
object `S`.\n */\n * Otherwise returns `null`.\n */\n\n@ExperimentalAssociatedObjects\n\npublic inline fun <reified T :
Annotation> KClass<*>.findAssociatedObject(): Any? =\n    this.findAssociatedObject(T::class)", "/*\n * Copyright
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport
getKClass\n\nimport kotlin.reflect.KClass\n\nimport kotlin.reflect.js.internal.KClassImpl\n\n/**\n *
Represents the constructor of a class. Instances of `JsClass` can be passed to JavaScript APIs that expect a
constructor reference.\n */\n\nexternal interface JsClass<T : Any> {\n    /**\n     * Returns the unqualified name of the
class represented by this instance.\n     */\n    val name: String\n}\n\n/**\n * Obtains a constructor reference for the
given `KClass`.\n */\n\nval <T : Any> KClass<T>.js: JsClass<T>\n    get() = (this as KClassImpl<T>).jClass\n\n/**\n *
Obtains a `KClass` instance for the given constructor reference.\n */\n\nval <T : Any> JsClass<T>.kotlin:
KClass<T>\n    get() = getKClass(this)", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal abstract
class KClassImpl<T : Any>(\n    internal open
val jClass: JsClass<T>) : KClass<T> {\n    override val qualifiedName: String?\n        get() = TODO()\n\n    override fun equals(other: Any?): Boolean {\n        return other is KClassImpl<*> && jClass == other.jClass\n    }\n\n    // TODO: use FQN\n    override fun hashCode(): Int = simpleName?.hashCode() ?: 0\n\n    override fun
toString(): String {\n        // TODO: use FQN\n        return "\"class $simpleName\"\n    }\n}\n\ninternal class
SimpleKClassImpl<T : Any>(jClass: JsClass<T>) : KClassImpl<T>(jClass) {\n    override val simpleName: String?
= jClass.asDynamic().`metadata`?.simpleName.unsafeCast<String?>()\n\n    override fun isInstance(value: Any?):
Boolean {\n        return jsIsType(value, jClass)\n    }\n}\n\ninternal class PrimitiveKClassImpl<T : Any>(\n    jClass: JsClass<T>,\n    private val givenSimpleName: String,\n    private val isInstanceFunction: (Any?) ->
Boolean)\n    : KClassImpl<T>(jClass) {\n    override fun equals(other: Any?): Boolean {\n        if (other
!is PrimitiveKClassImpl<*>) return false\n        return super.equals(other) && givenSimpleName ==
other.givenSimpleName\n    }\n\n    override val simpleName: String? get() = givenSimpleName\n\n    override fun
isInstance(value: Any?): Boolean {\n        return isInstanceFunction(value)\n    }\n}\n\ninternal object
NothingKClassImpl : KClassImpl<Nothing>(js("Object")) {\n    override val simpleName: String =
"Nothing"\n\n    override fun isInstance(value: Any?): Boolean = false\n\n    override val jClass:
JsClass<Nothing>\n        get() = throw UnsupportedOperationException("There's no native JS class for Nothing
type")\n\n    override fun equals(other: Any?): Boolean = other === this\n\n    override fun hashCode(): Int =
0\n}\n\ninternal class ErrorKClass : KClass<Nothing> {\n    override val simpleName: String? get() =
error("Unknown simpleName for ErrorKClass")\n\n    override val qualifiedName: String? get() = error("Unknown
qualifiedName for ErrorKClass")\n\n    override

```

```

fun isInstance(value: Any?): Boolean = error("Can's check isInstance on ErrorKClass")\n\n override fun
equals(other: Any?): Boolean = other === this\n\n override fun hashCode(): Int = 0\n}"/*\n * Copyright 2010-
2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\ninternal
actual inline val KClass<*>.qualifiedOrSimpleName: String?n get() = simpleName"/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get
declarations directly under the module\n\n// TODO: Remove once JsReflectionAPICallChecker supports more
reflection types\n@file:Suppress("Unsupported")\n\nimport kotlin.reflect.*\nimport
kotlin.reflect.js.internal.*\n\n@JsName("createKType")\n\ninternal
fun createKType(\n classifier: KClassifier,\n arguments: Array<KTypeProjection>,\n isMarkedNullable:
Boolean\n) =\n KTypeImpl(classifier, arguments.asList(),
isMarkedNullable)\n\n@JsName("createDynamicKType")\n\ninternal fun createDynamicKType(): KType =
DynamicKType\n\n@JsName("markKTypeNullable")\n\ninternal fun markKTypeNullable(kType: KType) =
KTypeImpl(kType.classifier!!, kType.arguments, true)\n\n@JsName("createKTypeParameter")\n\ninternal fun
createKTypeParameter(\n name: String,\n upperBounds: Array<KType>,\n variance: String\n):
KTypeParameter {\n val kVariance = when (variance) {\n "in" -> KVariance.IN\n "out" ->
KVariance.OUT\n else -> KVariance.INVARIANT\n }\n\n return KTypeParameterImpl(name,
upperBounds.asList(), kVariance, false)\n}\n\n@JsName("getStarKTypeProjection")\n\ninternal fun
getStarKTypeProjection(): KTypeProjection =\n
KTypeProjection.STAR\n\n@JsName("createCovariantKTypeProjection")\n\ninternal
fun createCovariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.covariant(type)\n\n@JsName("createInvariantKTypeProjection")\n\ninternal fun
createInvariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.invariant(type)\n\n@JsName("createContravariantKTypeProjection")\n\ninternal fun
createContravariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.contravariant(type)\n"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal class
KTypeImpl(\n override val classifier: KClassifier,\n override val arguments: List<KTypeProjection>,\n
override val isMarkedNullable: Boolean\n) : KType {\n override fun equals(other: Any?): Boolean =\n other
is
KTypeImpl &&\n classifier == other.classifier && arguments == other.arguments && isMarkedNullable
== other.isMarkedNullable\n\n override fun hashCode(): Int =\n (classifier.hashCode() * 31 +
arguments.hashCode()) * 31 + isMarkedNullable.hashCode()\n\n override fun toString(): String {\n val kClass
= (classifier as? KClass<*>)\n val classifierName = when {\n kClass == null -> classifier.toString()\n
kClass.simpleName != null -> kClass.simpleName\n else -> "(non-denotable type)"\n }\n\n val
args =\n if (arguments.isEmpty()) ""\n else arguments.joinToString(", ", "<", ">")\n val
nullable = if (isMarkedNullable) "?"\n else ""\n\n return classifierName + args + nullable\n }\n}\n\ninternal
object DynamicKType : KType {\n override val classifier: KClassifier? = null\n override val arguments:
List<KTypeProjection> = emptyList()\n override val isMarkedNullable:
Boolean = false\n\n override fun toString(): String = "dynamic"\n}\n"/*\n * Copyright 2010-2019 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport
kotlin.reflect.*\n\ninternal data class KTypeParameterImpl(\n override val name: String,\n override val
upperBounds: List<KType>,\n override val variance: KVariance,\n override val isReified: Boolean\n) :
KTypeParameter {\n override fun toString(): String = name\n}"/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that

```

```

can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport
kotlin.js.JsClass\n\n@JsName(\\"PrimitiveClasses\\")\ninternal object PrimitiveClasses {\n
@JsName(\\"anyClass\\")\n
    val anyClass = PrimitiveKClassImpl(js(\\"Object\\").unsafeCast<JsClass<Any>>(), \\"Any\\", { it is Any })\n\n
@JsName(\\"numberClass\\")\n    val numberClass =
PrimitiveKClassImpl(js(\\"Number\\").unsafeCast<JsClass<Number>>(), \\"Number\\", { it is Number })\n\n
@JsName(\\"nothingClass\\")\n    val nothingClass = NothingKClassImpl\n\n    @JsName(\\"booleanClass\\")\n    val
booleanClass = PrimitiveKClassImpl(js(\\"Boolean\\").unsafeCast<JsClass<Boolean>>(), \\"Boolean\\", { it is Boolean
})\n\n    @JsName(\\"byteClass\\")\n    val byteClass =
PrimitiveKClassImpl(js(\\"Number\\").unsafeCast<JsClass<Byte>>(), \\"Byte\\", { it is Byte })\n\n
@JsName(\\"shortClass\\")\n    val shortClass = PrimitiveKClassImpl(js(\\"Number\\").unsafeCast<JsClass<Short>>(),
\\"Short\\", { it is Short })\n\n    @JsName(\\"intClass\\")\n    val intClass =
PrimitiveKClassImpl(js(\\"Number\\").unsafeCast<JsClass<Int>>(), \\"Int\\", { it is Int })\n\n
@JsName(\\"floatClass\\")\n    val floatClass = PrimitiveKClassImpl(js(\\"Number\\").unsafeCast<JsClass<Float>>(),
\\"Float\\", { it is Float })\n\n    @JsName(\\"doubleClass\\")\n    val doubleClass =
PrimitiveKClassImpl(js(\\"Number\\").unsafeCast<JsClass<Double>>(), \\"Double\\", { it is Double })\n\n
@JsName(\\"arrayClass\\")\n    val arrayClass =
PrimitiveKClassImpl(js(\\"Array\\").unsafeCast<JsClass<Array<*>>(), \\"Array\\", { it is Array<*> })\n\n
@JsName(\\"stringClass\\")\n    val stringClass = PrimitiveKClassImpl(js(\\"String\\").unsafeCast<JsClass<String>>(),
\\"String\\", { it is String })\n\n    @JsName(\\"throwableClass\\")\n    val throwableClass =
PrimitiveKClassImpl(js(\\"Error\\").unsafeCast<JsClass<Throwable>>(), \\"Throwable\\", { it is Throwable })\n\n
@JsName(\\"booleanArrayClass\\")\n    val booleanArrayClass =
PrimitiveKClassImpl(js(\\"Array\\").unsafeCast<JsClass<BooleanArray>>(), \\"BooleanArray\\", { it is BooleanArray
})\n\n    @JsName(\\"charArrayClass\\")\n    val charArrayClass =
PrimitiveKClassImpl(js(\\"UInt16Array\\").unsafeCast<JsClass<CharArray>>(), \\"CharArray\\",
    { it is CharArray })\n\n    @JsName(\\"byteArrayClass\\")\n    val byteArrayClass =
PrimitiveKClassImpl(js(\\"Int8Array\\").unsafeCast<JsClass<ByteArray>>(), \\"ByteArray\\", { it is ByteArray })\n\n
@JsName(\\"shortArrayClass\\")\n    val shortArrayClass =
PrimitiveKClassImpl(js(\\"Int16Array\\").unsafeCast<JsClass<ShortArray>>(), \\"ShortArray\\", { it is ShortArray
})\n\n    @JsName(\\"intArrayClass\\")\n    val intArrayClass =
PrimitiveKClassImpl(js(\\"Int32Array\\").unsafeCast<JsClass<IntArray>>(), \\"IntArray\\", { it is IntArray })\n\n
@JsName(\\"longArrayClass\\")\n    val longArrayClass =
PrimitiveKClassImpl(js(\\"Array\\").unsafeCast<JsClass<LongArray>>(), \\"LongArray\\", { it is LongArray })\n\n
@JsName(\\"floatArrayClass\\")\n    val floatArrayClass =
PrimitiveKClassImpl(js(\\"Float32Array\\").unsafeCast<JsClass<FloatArray>>(), \\"FloatArray\\", { it is FloatArray
})\n\n    @JsName(\\"doubleArrayClass\\")\n    val doubleArrayClass =
PrimitiveKClassImpl(js(\\"Float64Array\\").unsafeCast<JsClass<DoubleArray>>(),
    \\"DoubleArray\\", { it is DoubleArray })\n\n    @JsName(\\"functionClass\\")\n    fun functionClass(arity: Int):
KClassImpl<Any> {\n        return functionClasses.get(arity) ?: run {\n            val result =
PrimitiveKClassImpl(js(\\"Function\\").unsafeCast<JsClass<Any>>(), \\"Function$arity\\",\n                { jsTypeOf(it) === \\"function\\" && it.asDynamic().length === arity })\n            functionClasses.asDynamic()[arity]
= result\n            result\n        }\n    }\n\nprivate val functionClasses =
arrayOfNulls<KClassImpl<Any>>(0),"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the module\n\nimport
kotlin.reflect.*\nimport kotlin.reflect.js.internal.*\n\n@JsName(\\"getKClass\\")\ninternal fun <T : Any>
getKClass(jClass:

```



```

Any /* JsClass<T> | Array<JsClass<T>> */: KClass<T> {
    return if (js("Array").isArray(jClass)) {
        getKClassM(jClass.unsafeCast<Array<JsClass<T>>>())
    } else {
        getKClass1(jClass.unsafeCast<JsClass<T>>())
    }
}

@JsName("getKClassM")
internal fun <T : Any>
getKClassM(jClasses: Array<JsClass<T>>): KClass<T> = when (jClasses.size) {
    1 ->
        getKClass1(jClasses[0])
    0 -> Nothing
    KClassImpl.unsafeCast<KClass<T>>()
    else ->
        ErrorKClass().unsafeCast<KClass<T>>()
}

@JsName("getKClassFromExpression")
internal fun <T : Any>
getKClassFromExpression(e: T): KClass<T> = when (jsTypeOf(e)) {
    "string" ->
        PrimitiveClasses.stringClass
    "number" -> if (jsBitwiseOr(e, 0).asDynamic() === e)
        PrimitiveClasses.intClass
    else PrimitiveClasses.doubleClass
    "boolean" -> PrimitiveClasses.booleanClass
    "function" -> PrimitiveClasses.functionClass(e.asDynamic().length)
    else -> {
        when {
            e is BooleanArray -> PrimitiveClasses.booleanArrayClass
            e is CharArray ->
                PrimitiveClasses.charArrayClass
            e is ByteArray -> PrimitiveClasses.byteArrayClass
            e is
                ShortArray -> PrimitiveClasses.shortArrayClass
            e is IntArray -> PrimitiveClasses.intArrayClass
            e is LongArray -> PrimitiveClasses.longArrayClass
            e is FloatArray ->
                PrimitiveClasses.floatArrayClass
            e is DoubleArray -> PrimitiveClasses.doubleArrayClass
            e is
                KClass<*> -> KClass::class
            e is Array<*> -> PrimitiveClasses.arrayClass
            else -> {
                val constructor = js("Object").getPrototypeOf(e).constructor
                when {
                    constructor
                    === js("Object") -> PrimitiveClasses.anyClass
                    constructor === js("Error") ->
                        PrimitiveClasses.throwableClass
                }
            }
        }
    }
}

else -> {
    val jsClass: JsClass<T> = constructor
    getKClass1(jsClass)
}

}

.unsafeCast<KClass<T>>()
@JsName("getKClass1")
internal fun <T : Any>
getKClass1(jClass:
JsClass<T>): KClass<T> {
    if (jClass === js("String"))
        return
        PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()
    val metadata = jClass.asDynamic().`$metadata$`
    return if (metadata != null) {
        if (metadata.`$kClass$` == null) {
            val kClass =
                SimpleKClassImpl(jClass)
            metadata.`$kClass$` = kClass
            kClass
        } else {
            metadata.`$kClass$`
        }
    } else {
        SimpleKClassImpl(jClass)
    }
}

/*
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 * Apache 2.0 license that can be found in the license/LICENSE.txt
 */
file.
package kotlin.js
/**
 * Exposes the JavaScript [RegExp
 * object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/RegExp) to Kotlin.
 */
@Suppress("NOT_DOCUMENTED")
public external class RegExp(pattern: String, flags: String? =
definedExternally) {
    public fun test(str: String): Boolean
    public fun exec(str: String): RegExpMatch?
    public override fun toString(): String
    /**
     * The lastIndex is a read/write integer property of regular
     * expressions that specifies the index at which to start the next match.
     */
    public var lastIndex: Int
    public
    val global: Boolean
    public val ignoreCase: Boolean
    public val multiline: Boolean
}

/**
 * Resets the
 * regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning
 * of the input string.
 */
public fun RegExp.reset() {
    lastIndex = 0
}

// TODO: Inherit from array or
// introduce asArray() extension
/**
 * Represents the return value of [RegExp.exec].
 */
@Suppress("NOT_DOCUMENTED")
public external interface RegExpMatch {
    public val index: Int
    public val input: String
    public val length: Int
}

/**
 * Returns the entire text matched by [RegExp.exec] if
 * the [index] parameter is 0, or the text matched by the capturing parenthesis
 * at the given index.
 */
public inline
operator fun RegExpMatch.get(index: Int): String? = asDynamic()[index]
/**
 * Converts the result of
 * [RegExp.exec] to an array where the first element contains the entire matched text and each subsequent
 * element
 * is the text matched by each capturing parenthesis.
 */
public inline fun RegExpMatch.asArray(): Array<out
String?> = unsafeCast<Array<out String?>>()
/*
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 * Programming Language contributors.
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 * found in the license/LICENSE.txt
 */

```

```

file.\n *\n\npackage kotlin.sequences\n\ninternal actual class ConstrainedOnceSequence<T> actual
constructor(sequence: Sequence<T>) : Sequence<T> {\n    private var sequenceRef: Sequence<T>? = sequence\n\n    actual override fun iterator(): Iterator<T> {\n        val sequence = sequenceRef ?: throw IllegalStateException("This
sequence can be consumed only once.")\n        sequenceRef = null\n        return sequence.iterator()\n    }\n}\n\n"/*\n
* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage
kotlin.text\n\n@SinceKotlin("1.5")\n\npublic actual enum class CharCategory(internal val value: Int, public actual
val code: String) {\n    /**\n     * General category \"Cn\" in the Unicode specification.\n     *\n     * UNASSIGNED(0,
\"Cn\"),\n\n     /**\n     * General category \"Lu\" in the Unicode specification.\n     *\n     * UPPERCASE_LETTER(1, \"Lu\"),\n\n     /**\n     * General category \"Ll\" in the Unicode specification.\n     *\n     * LOWERCASE_LETTER(2, \"Ll\"),\n\n     /**\n     * General category \"Lt\" in the Unicode specification.\n     *\n     * TITLECASE_LETTER(3, \"Lt\"),\n\n     /**\n     * General category \"Lm\" in the Unicode specification.\n     *\n     * MODIFIER_LETTER(4, \"Lm\"),\n\n     /**\n     * General category \"Lo\" in the Unicode specification.\n     *\n     * OTHER_LETTER(5, \"Lo\"),\n\n     /**\n     * General category \"Mn\" in the Unicode specification.\n     *\n     * NON_SPACING_MARK(6, \"Mn\"),\n\n     /**\n     * General category \"Me\" in the Unicode specification.\n     *\n     * ENCLOSING_MARK(7, \"Me\"),\n\n     /**\n     * General category \"Mc\" in the Unicode specification.\n     *\n     * COMBINING_SPACING_MARK(8, \"Mc\"),\n\n     /**\n     * General category \"Nd\" in the Unicode
specification.\n     *\n     * DECIMAL_DIGIT_NUMBER(9, \"Nd\"),\n\n     /**\n     * General
category \"Nl\" in the Unicode specification.\n     *\n     * LETTER_NUMBER(10, \"Nl\"),\n\n     /**\n     * General
category \"No\" in the Unicode specification.\n     *\n     * OTHER_NUMBER(11, \"No\"),\n\n     /**\n     * General
category \"Zs\" in the Unicode specification.\n     *\n     * SPACE_SEPARATOR(12, \"Zs\"),\n\n     /**\n     * General
category \"Zl\" in the Unicode specification.\n     *\n     * LINE_SEPARATOR(13, \"Zl\"),\n\n     /**\n     * General
category \"Zp\" in the Unicode specification.\n     *\n     * PARAGRAPH_SEPARATOR(14, \"Zp\"),\n\n     /**\n     *
General category \"Cc\" in the Unicode specification.\n     *\n     * CONTROL(15, \"Cc\"),\n\n     /**\n     * General
category \"Cf\" in the Unicode specification.\n     *\n     * FORMAT(16, \"Cf\"),\n\n     /**\n     * General category
\"Co\" in the Unicode specification.\n     *\n     * PRIVATE_USE(18, \"Co\"),\n\n     /**\n     * General category \"Cs\"
in the Unicode specification.\n     *\n     * SURROGATE(19, \"Cs\"),\n\n     /**\n     *
General category \"Pd\" in the Unicode specification.\n     *\n     * DASH_PUNCTUATION(20, \"Pd\"),\n\n     /**\n     *
General category \"Ps\" in the Unicode specification.\n     *\n     * START_PUNCTUATION(21,
\"Ps\"),\n\n     /**\n     * General category \"Pe\" in the Unicode specification.\n     *\n     * END_PUNCTUATION(22,
\"Pe\"),\n\n     /**\n     * General category \"Pc\" in the Unicode specification.\n     *\n     * CONNECTOR_PUNCTUATION(23, \"Pc\"),\n\n     /**\n     * General category \"Po\" in the Unicode
specification.\n     *\n     * OTHER_PUNCTUATION(24, \"Po\"),\n\n     /**\n     * General category \"Sm\" in the
Unicode specification.\n     *\n     * MATH_SYMBOL(25, \"Sm\"),\n\n     /**\n     * General category \"Sc\" in the
Unicode specification.\n     *\n     * CURRENCY_SYMBOL(26, \"Sc\"),\n\n     /**\n     * General category \"Sk\" in
the Unicode specification.\n     *\n     * MODIFIER_SYMBOL(27, \"Sk\"),\n\n     /**\n     * General category \"So\" in
the Unicode specification.\n     *\n     * OTHER_SYMBOL(28, \"So\"),\n\n     /**\n     * General category \"Pi\" in the Unicode specification.\n     *\n     * INITIAL_QUOTE_PUNCTUATION(29, \"Pi\"),\n\n     /**\n     * General category \"Pf\" in the Unicode
specification.\n     *\n     * FINAL_QUOTE_PUNCTUATION(30, \"Pf\");\n\n     /**\n     * Returns `true` if [char]
character belongs to this category.\n     *\n     * public actual operator fun contains(char: Char): Boolean =
char.getCategoryValue() == this.value\n\n     companion object {\n         internal fun valueOf(category: Int):
CharCategory =\n             when (category) {\n                 in 0..16 -> values()[category]\n                 in 18..30 ->
values()[category - 1]\n                 else -> throw IllegalArgumentException("Category #\$category is not defined.")\n             }\n     }\n}\n\n"/*\n
* Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\npackage kotlin.text\n\n/**\n * The exception thrown when a character encoding
or decoding error occurs.\n *\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\n *\n * public

```

```

actual open class CharacterCodingException(message: String?) : Exception(message) {\n  actual constructor() :
this(null)\n}\n"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.text\n/**\n * A mutable sequence of characters.\n */\n * String builder can be used to
efficiently perform multiple string manipulation operations.\n */\npublic actual class StringBuilder actual
constructor(content: String) : Appendable, CharSequence {\n  /**\n   * Constructs an empty string builder with
the specified initial [capacity].\n   *\n   * In Kotlin/JS implementation of StringBuilder the initial
capacity has no effect on the further performance of operations.\n   */\n  actual constructor(capacity: Int) : this(
{\n  }\n)\n  /** Constructs a string builder that contains the same characters as the specified [content] char
sequence. */\n  actual constructor(content: CharSequence) : this(content.toString()) {\n}\n  /** Constructs an
empty string builder. */\n  actual constructor() : this(\"\")\n  private var string: String = if (content !==
undefined) content else \"\"\n  actual override val length: Int\n    get() = string.asDynamic().length\n  actual
override fun get(index: Int): Char =\n    string.getOrElse(index) { throw IndexOutOfBoundsException(\"index:
$index, length: $length\") }\n  actual override fun subSequence(startIndex: Int, endIndex: Int): CharSequence =
string.substring(startIndex, endIndex)\n  actual override fun append(value: Char): StringBuilder {\n    string +=
value\n    return this\n  }\n  actual override
fun append(value: CharSequence?): StringBuilder {\n    string += value.toString()\n    return this\n  }\n  actual
override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder =\n    this.appendRange(value ?: \"null\", startIndex, endIndex)\n  /**\n   * Reverses the contents of this string builder
and returns this instance.\n   *\n   * Surrogate pairs included in this string builder are treated as single
characters.\n   * Therefore, the order of the high-low surrogates is never reversed.\n   *\n   * Note that the reverse
operation may produce new surrogate pairs that were unpaired low-surrogates and high-surrogates before the
operation.\n   * For example, reversing `\"\\uDC00\\uD800\"` produces `\"\\uD800\\uDC00\"` which is a valid
surrogate pair.\n   */\n  actual fun reverse(): StringBuilder {\n    var reversed = \"\"\n    var index =
string.length - 1\n    while (index >= 0) {\n      val low = string[index--]\n      if (low.isLowSurrogate() && index >= 0) {\n        val high = string[index--]\n        if
(high.isHighSurrogate()) {\n          reversed = reversed + high + low\n        } else {\n          reversed
= reversed + low + high\n        }\n      } else {\n        reversed += low\n      }\n    }\n    string =
reversed\n    return this\n  }\n  /**\n   * Appends the string representation of the specified object [value] to
this string builder and returns this instance.\n   *\n   * The overall effect is exactly as if the [value] were converted
to a string by the `value.toString()` method,\n   * and then that string was appended to this string builder.\n   */\n  actual fun append(value: Any?): StringBuilder {\n    string += value.toString()\n    return this\n  }\n  /**\n   * Appends the string representation of the specified boolean [value] to this string
builder and returns this instance.\n   *\n   * The overall effect is exactly as if the [value] were converted to a
string by the `value.toString()` method,\n   * and then that string was appended to this string builder.\n   */\n  @SinceKotlin(1.3)\n  actual fun append(value: Boolean): StringBuilder {\n    string += value\n    return
this\n  }\n  /**\n   * Appends characters in the specified character array [value] to this string builder and
returns this instance.\n   *\n   * Characters are appended in order, starting at the index 0.\n   */\n  @SinceKotlin(1.4)\n  @WasExperimental(ExperimentalStdlibApi::class)\n  actual fun append(value:
CharArray): StringBuilder {\n    string += value.concatToString()\n    return this\n  }\n  /**\n   * Appends
the specified string [value] to this string builder and returns this instance.\n   *\n   * If [value] is `null`, then the
four characters `\"null\"` are appended.\n   */\n  @SinceKotlin(1.3)\n  actual fun append(value: String?): StringBuilder {\n    this.string += value ?:
\"null\"\n    return this\n  }\n  /**\n   * Returns the current capacity of this string builder.\n   *\n   * The
capacity is the maximum length this string builder can have before an allocation occurs.\n   *\n   * In Kotlin/JS
implementation of StringBuilder the value returned from this method may not indicate the actual size of the backing
storage.\n   */\n  @SinceKotlin(1.3)\n  // @ExperimentalStdlibApi\n  @Deprecated(\"Obtaining
StringBuilder capacity is not supported in JS and common code.\", level = DeprecationLevel.WARNING)\n  actual

```

```

fun capacity(): Int = length\n\n /**\n * Ensures that the capacity of this string builder is at least equal to the
specified [minimumCapacity].\n *\n * If the current capacity is less than the [minimumCapacity], a new
backing storage is allocated with greater capacity.\n * Otherwise, this
method takes no action and simply returns.\n *\n * In Kotlin/JS implementation of StringBuilder the size of the
backing storage is not extended to comply the given [minimumCapacity],\n * thus calling this method has no
effect on the further performance of operations.\n */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun ensureCapacity(minimumCapacity: Int) {\n
}\n\n /**\n * Returns the index within this string builder of the first occurrence of the specified [string].\n *\n
* Returns -1 if the specified [string] does not occur in this string builder.\n */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun indexOf(string: String): Int =
this.string.asDynamic().indexOf(string)\n\n /**\n * Returns the index within this string builder of the first
occurrence of the specified [string],\n * starting at the specified [startIndex].\n *\n * Returns
-1 if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n */\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun indexOf(string: String,
startIndex: Int): Int = this.string.asDynamic().indexOf(string, startIndex)\n\n /**\n * Returns the index within
this string builder of the last occurrence of the specified [string].\n * The last occurrence of empty string `` is
considered to be at the index equal to `this.length`.\n *\n * Returns -1 if the specified [string] does not occur
in this string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n
actual fun lastIndexOf(string: String): Int = this.string.asDynamic().lastIndexOf(string)\n\n /**\n * Returns the
index within this string builder of the last occurrence of the specified [string],\n * starting from the specified
[startIndex] toward the beginning.\n *\n * Returns -1 if the specified [string] does not occur in this string builder starting at the specified
[startIndex].\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun
lastIndexOf(string: String, startIndex: Int): Int {\n    if (string.isEmpty() && startIndex < 0) return -1\n    return
this.string.asDynamic().lastIndexOf(string, startIndex)\n }\n\n /**\n * Inserts the string representation of the
specified boolean [value] into this string builder at the specified [index] and returns this instance.\n *\n * The
overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then
that string was inserted into this string builder at the specified [index].\n *\n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n
actual fun insert(index: Int, value: Boolean): StringBuilder {\n    AbstractList.checkPositionIndex(index,
length)\n\n    string = string.substring(0, index) + value + string.substring(index)\n    return this\n }\n\n
/**\n * Inserts the specified character [value] into this string builder at the specified [index] and returns this
instance.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of
this string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n
actual fun insert(index: Int, value: Char): StringBuilder {\n    AbstractList.checkPositionIndex(index, length)\n\n
string = string.substring(0, index) + value + string.substring(index)\n    return this\n }\n\n /**\n * Inserts
characters in the specified character array [value] into this string builder at the specified [index] and returns this
instance.\n *\n * The inserted characters go in same order as in the [value] character array, starting at [index].\n *\n
* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n
*/\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int,
value: CharArray): StringBuilder {\n    AbstractList.checkPositionIndex(index, length)\n\n    string =
string.substring(0, index) + value.concatToString() + string.substring(index)\n    return this\n }\n\n /**\n *
Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and
returns this instance.\n *\n * The inserted characters go in the same order as in the [value] character sequence,
starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the
character sequence from which characters

```

```

are inserted. If [value] is `null`, then the four characters `"\null"` are inserted.
 * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
 *
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
actual fun insert(index: Int, value:
CharSequence?): StringBuilder {
    AbstractList.checkPositionIndex(index, length)
    string =
string.substring(0, index) + value.toString() + string.substring(index)
    return this
}
/**
 * Inserts
the string representation of the specified object [value] into this string builder at the specified [index] and returns
this instance.
 *
 * The overall effect is exactly as if the [value] were converted to a string by the
`value.toString()` method,
 * and then that string was inserted into this string builder at the specified [index].
 *
 * @throws IndexOutOfBoundsException if [index]
is less than zero or greater than the length of this string builder.
 *
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
actual fun insert(index: Int, value: Any?): StringBuilder {
    AbstractList.checkPositionIndex(index, length)
    string = string.substring(0, index) + value.toString() +
string.substring(index)
    return this
}
/**
 * Inserts the string [value] into this string builder at the
specified [index] and returns this instance.
 *
 * If [value] is `null`, then the four characters `"\null"` are
inserted.
 *
 * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of
this string builder.
 *
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
actual fun insert(index: Int, value: String?): StringBuilder {
    AbstractList.checkPositionIndex(index,
length)
    val toInsert = value ?: "\null"
    this.string = this.string.substring(0, index) + toInsert + this.string.substring(index)
    return this
}
/**
 * Sets the length of this string builder to the specified [newLength].
 *
 * If the [newLength] is less
than the current length, it is changed to the specified [newLength].
 *
 * Otherwise, null characters `'\u0000'` are
appended to this string builder until its length is less than the [newLength].
 *
 * Note that in Kotlin/JS [set]
operator function has non-constant execution time complexity.
 *
 * Therefore, increasing length of this string
builder and then updating each character by index may slow down your program.
 *
 * @throws
IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.
 *
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
actual fun setLength(newLength:
Int) {
    if (newLength < 0) {
        throw IllegalArgumentException("Negative
new length: $newLength.")
    }
    if (newLength <= length) {
        string = string.substring(0,
newLength)
    } else {
        for (i in length until newLength) {
            string += "\u0000"
        }
    }
}
/**
 * Returns a new [String] that contains characters in this string builder at [startIndex]
(inclusive) and up to the [length] (exclusive).
 *
 * @throws IndexOutOfBoundsException if [startIndex] is
less than zero or greater than the length of this string builder.
 *
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
actual fun substring(startIndex: Int): String {
    AbstractList.checkPositionIndex(startIndex, length)
    return string.substring(startIndex)
}
/**
 * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the
[endIndex] (exclusive).
 *
 *
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of this string builder indices or when `startIndex > endIndex`.
 *
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
actual fun substring(startIndex: Int, endIndex: Int): String
{
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)
    return string.substring(startIndex,
endIndex)
}
/**
 * Attempts to reduce storage used for this string builder.
 *
 * If the backing
storage of this string builder is larger than necessary to hold its current contents,
 * then it may be resized to
become more space efficient.
 *
 * Calling this method may, but is not required to, affect the value of the [capacity]
property.
 *
 * In Kotlin/JS implementation of StringBuilder the size of the backing storage is always equal
to the length of the string builder.
 *
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
actual fun trimToSize() {
}
override fun
toString(): String = string
/**
 * Clears the content of this string builder making it empty and returns this
instance.
 *
 * @sample samples.text.Strings.clearStringBuilder
 *
@SinceKotlin("1.3")
public

```

```

fun clear(): StringBuilder {
    string = ""
    return this
}

/**
 * Sets the character at the
 * specified [index] to the specified [value].
 * @throws IndexOutOfBoundsException if [index] is out of
 * bounds of this string builder.
 * @SinceKotlin("1.4")
 * @WasExperimental(ExperimentalStdlibApi::class)
 */
public operator fun set(index: Int, value: Char) {
    AbstractList.checkElementIndex(index, length)
    string = string.substring(0, index) + value +
    string.substring(index + 1)
}

/**
 * Replaces characters in the specified range of this string
 * builder with characters in the specified string [value] and returns this instance.
 * @param startIndex the
 * beginning (inclusive) of the range to replace.
 * @param endIndex the end (exclusive) of the range to replace.
 * @param value the string to replace with.
 * @throws IndexOutOfBoundsException or
 * [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or
 * `startIndex > endIndex`.
 * @SinceKotlin("1.4")
 * @WasExperimental(ExperimentalStdlibApi::class)
 */
public fun setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder {
    checkReplaceRange(startIndex, endIndex, length)
    this.string = this.string.substring(0, startIndex) + value +
    this.string.substring(endIndex)
    return this
}

private fun checkReplaceRange(startIndex: Int,
endIndex: Int, length: Int) {
    if (startIndex < 0 || startIndex > length) {
        throw
        IndexOutOfBoundsException("startIndex: $startIndex, length: $length")
    }
    if (startIndex > endIndex) {
        throw IllegalArgumentException("startIndex($startIndex) > endIndex($endIndex)")
    }
}

/**
 * Removes the character at the specified [index] from this string builder and returns this instance.
 * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire
 * supplementary character.
 * @param index the index of `Char` to remove.
 * @throws
 * IndexOutOfBoundsException if [index] is out of bounds of this string builder.
 * @SinceKotlin("1.4")
 * @WasExperimental(ExperimentalStdlibApi::class)
 */
public fun deleteAt(index: Int): StringBuilder {
    AbstractList.checkElementIndex(index, length)
    string = string.substring(0, index) + string.substring(index +
    1)
    return this
}

/**
 * Removes
 * characters in the specified range from this string builder and returns this instance.
 * @param startIndex
 * the beginning (inclusive) of the range to remove.
 * @param endIndex the end (exclusive) of the range to
 * remove.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is
 * out of range of this string builder indices or when `startIndex > endIndex`.
 * @SinceKotlin("1.4")
 * @WasExperimental(ExperimentalStdlibApi::class)
 */
public fun deleteRange(startIndex: Int, endIndex: Int):
StringBuilder {
    checkReplaceRange(startIndex, endIndex, length)
    string = string.substring(0,
    startIndex) + string.substring(endIndex)
    return this
}

/**
 * Copies characters from this string
 * builder into the [destination] character array.
 * @param destination the array to copy to.
 * @param
 * destinationOffset the position in the array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.
 * @param endIndex the end
 * (exclusive) of the range to copy, length of this string builder by default.
 * @throws
 * IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this
 * string builder indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the
 * subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
 * or when that index
 * is out of the [destination] array indices range.
 * @SinceKotlin("1.4")
 * @WasExperimental(ExperimentalStdlibApi::class)
 */
public fun toCharArray(destination: CharArray,
destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)
    AbstractList.checkBoundsIndexes(destinationOffset, destinationOffset + endIndex - startIndex,
    destination.size)
    var dstIndex = destinationOffset
    for (index in startIndex until endIndex) {
        destination[dstIndex++] = string[index]
    }
}

/**
 * Appends characters in a subarray of the
 * specified character array [value] to this string builder and returns this instance.
 * Characters are appended
 * in order, starting at specified [startIndex].
 * @param value the array from which characters are
 * appended.
 * @param startIndex the beginning (inclusive) of the subarray to append.
 * @param endIndex

```



startIndex the beginning (inclusive) of the range to replace.\n \* @param endIndex the end (exclusive) of the range to replace.\n \* @param value the string to replace with.\n \*\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n \*\n \* @SinceKotlin("1.4")\n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* @Suppress("EXTENSION\_SHADOWED\_BY\_MEMBER", "NOTHING\_TO\_INLINE")\n \* public actual inline fun  
StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder =\n this.setRange(startIndex, endIndex, value)\n\n/\*\*\n \* Removes the character at the specified [index] from this string builder and returns this instance.\n \*\n \* If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n \*\n \* @param index the index of `Char` to remove.\n \*\n \* @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n \*\n \* @SinceKotlin("1.4")\n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* @Suppress("EXTENSION\_SHADOWED\_BY\_MEMBER", "NOTHING\_TO\_INLINE")\n \* public actual inline fun  
StringBuilder.deleteAt(index: Int): StringBuilder = this.deleteAt(index)\n\n/\*\*\n \* Removes characters in the specified range from this string builder and returns this instance.\n \*\n \* @param startIndex the beginning (inclusive) of the range to remove.\n \*\n \* @param endIndex the end (exclusive) of the range to remove.\n \*\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n \*\n \* @SinceKotlin("1.4")\n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* @Suppress("EXTENSION\_SHADOWED\_BY\_MEMBER", "NOTHING\_TO\_INLINE")\n \* public actual inline fun  
StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder = this.deleteRange(startIndex, endIndex)\n\n/\*\*\n \* Copies characters from this string builder into the [destination] character array.\n \*\n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n \*\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n \*\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \*\n \* @SinceKotlin("1.4")\n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* @Suppress("EXTENSION\_SHADOWED\_BY\_MEMBER", "NOTHING\_TO\_INLINE", "ACTUAL\_FUNCTION\_WITH\_DEFAULT\_ARGUMENTS")\n \* public actual inline fun  
StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) =\n this.toCharArray(destination, destinationOffset, startIndex, endIndex)\n\n/\*\*\n \* Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.\n \*\n \* Characters are appended in order, starting at specified [startIndex].\n \*\n \* @param value the array from which characters are appended.\n \* @param startIndex the beginning (inclusive) of the subarray to append.\n \* @param endIndex the end (exclusive) of the subarray to append.\n \*\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n \*\n \* @SinceKotlin("1.4")\n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* @Suppress("EXTENSION\_SHADOWED\_BY\_MEMBER", "NOTHING\_TO\_INLINE")\n \* public actual inline fun  
StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n this.appendRange(value, startIndex, endIndex)\n\n/\*\*\n \* Appends a subsequence of the specified character sequence [value] to this string builder and returns this instance.\n \*\n \* @param value the character sequence from which a subsequence is appended.\n \* @param startIndex the beginning (inclusive) of the subsequence to append.\n \* @param endIndex the



end (exclusive) of the subsequence to append.\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\n
this.appendRange(value, startIndex, endIndex)\n\n/**\n * Inserts characters in a subarray of the specified character
array [value] into this string builder at the specified [index] and returns this instance.\n * The inserted characters
go in same order as in
the [value] array, starting at [index].\n * @param index the position in this string builder to insert at.\n *
@param value the array from which characters are inserted.\n * @param startIndex the beginning (inclusive) of the
subarray to insert.\n * @param endIndex the end (exclusive) of the subarray to insert.\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less
than zero or greater than the length of this string builder.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n
this.insertRange(index, value, startIndex, endIndex)\n\n/**\n * Inserts characters in a subsequence of the
specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n *
The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n * @param
index the position in this string builder to insert at.\n * @param value the character sequence from which a
subsequence is inserted.\n * @param startIndex the beginning (inclusive) of the subsequence to insert.\n * @param
endIndex the end (exclusive) of the subsequence to insert.\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence
indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or
greater than the length of this string builder.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline
fun StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\n
this.insertRange(index, value, startIndex, endIndex)\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\npackage kotlin.text\n\n/**\n * Returns `true` if this string is not
`null` and its content is equal to the word `true`, ignoring case, and `false` otherwise.\n * There are also strict
versions of the function available on non-nullable String, [toBooleanStrict] and [toBooleanStrictOrNull].\n
*\n@SinceKotlin("1.4")\npublic actual fun String?.toBoolean(): Boolean = this != null && this.lowercase() ==
`true`\n\n/**\n * Parses the string as a signed [Byte] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n *\npublic actual
fun String.toByte(): Byte = toByteOrNull() ?: numberFormatException(this)\n\n/**\n * Parses the string as a signed
[Byte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to
number conversion.\n *\npublic actual fun String.toByte(radix: Int): Byte = toByteOrNull(radix) ?:
numberFormatException(this)\n\n/**\n * Parses the string as a [Short] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n *\npublic actual fun
String.toShort(): Short = toShortOrNull() ?: numberFormatException(this)\n\n/**\n * Parses the string as a [Short]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\npublic actual

```

```

fun String.toShort(radix: Int): Short = toShortOrNull(radix) ?: numberFormatException(this)\n\n/**\n * Parses the string
as an [Int] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\npublic actual fun String.toInt(): Int = toIntOrNull() ?:\n
numberFormatException(this)\n\n/**\n * Parses the string as an [Int] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentOutOfRangeException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun
String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatException(this)\n\n/**\n * Parses the string as a [Long]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n */\npublic actual fun String.toLong(): Long = toLongOrNull() ?:\n
numberFormatException(this)\n\n/**\n * Parses the string as a [Long]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n * @throws IllegalArgumentOutOfRangeException when [radix] is not a valid radix for string to number conversion.\n
*/\npublic actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?:\n
numberFormatException(this)\n\n/**\n * Parses the string as a [Double] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun String.toDouble():
Double =
+(this.asDynamic()).unsafeCast<Double>().also {\n    if (it.isNaN() && !this.isNaN() || it == 0.0 &&
this.isBlank())\n        numberFormatException(this)\n}\n\n/**\n * Parses the string as a [Float] number and returns the
result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toFloat(): Float =
toDouble().unsafeCast<Float>()\n\n/**\n * Parses
the string as a [Double] number and returns the result\n * or `null` if the string is not a valid representation of a
number.\n */\npublic actual fun String.toDoubleOrNull(): Double? =
+(this.asDynamic()).unsafeCast<Double>().takeIf {\n    !(it.isNaN() && !this.isNaN() || it == 0.0 &&
this.isBlank())\n}\n\n/**\n * Parses the string as a [Float] number and returns the result\n * or `null` if the string is
not a valid representation of a number.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun
String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()\n\n/**\n * Returns a string representation
of this [Byte] value in the specified [radix].\n * @throws IllegalArgumentOutOfRangeException when [radix] is not a valid
radix for number to string conversion.\n */\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual
inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of
this [Short] value in the
specified [radix].\n * @throws IllegalArgumentOutOfRangeException when [radix] is not a valid radix for number to string
conversion.\n */\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual inline fun Short.toString(radix:
Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this [Int] value in the specified
[radix].\n * @throws IllegalArgumentOutOfRangeException when [radix] is not a valid radix for number to string
conversion.\n */\n@SinceKotlin("1.2")\npublic actual fun Int.toString(radix: Int): String =
asDynamic().toString(checkRadix(radix))\n\nprivate fun String.isNaN(): Boolean = when (this.lowercase()) {\n
"nan", "+nan", "-nan" -> true\n    else -> false\n}\n\n/**\n * Checks whether the given [radix] is valid radix for
string to number and number to string conversion.\n */\n@PublishedApi\ninternal actual fun checkRadix(radix: Int):
Int {\n    if (radix !in 2..36) {\n        throw IllegalArgumentOutOfRangeException("\nradix $radix was not
in valid range 2..36")\n    }\n    return radix\n}\n\ninternal actual fun digitOf(char: Char, radix: Int): Int = when {\n
char >= '0' && char <= '9' -> char - '0'\n    char >= 'A' && char <= 'Z' -> char - 'A' + 10\n    char >= 'a' && char <=
'z' -> char - 'a' + 10\n    char < '\u0080' -> -1\n    char >= '\uFF21' && char <= '\uFF3A' -> char - '\uFF21' + 10 //
full-width latin capital letter\n    char >= '\uFF41' && char <= '\uFF5A' -> char - '\uFF41' + 10 // full-width latin
small letter\n    else -> char.digitToIntImpl()\n}.let { if (it >= radix) -1 else it }\n\n", "*/\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport
kotlin.js.RegExp\n\n/**\n * Provides enumeration values to use to set regular expression options.\n */\npublic actual
enum class RegexOptions(val value: String) {\n    /**

```

```

Enables case-insensitive matching. */n IGNORE_CASE("\\i"),n /** Enables multiline mode.\n */n * In
multiline mode the expressions `^` and `$` match just after or just before,\n * respectively, a line terminator or the
end of the input sequence. */n MULTILINE("\\m")\n}\n\nprivate fun Iterable<RegexOption>.toFlags(prepend:
String): String = joinToString("\\", prefix = prepend) { it.value }\n\n/**\n * Represents the results from a single
capturing group within a [MatchResult] of [Regex].\n */n * @param value The value of captured group.\n */n\npublic
actual data class MatchGroup(actual val value: String)\n\n/**\n * Returns a named group with the specified
[name].\n */n * @return An instance of [MatchGroup] if the group with the specified [name] was matched or `null`
otherwise.\n */n * @throws IllegalArgumentException if there is no group with the specified [name] defined in the
regex pattern.\n */n * @throws UnsupportedOperationException if this match group collection doesn't
support getting match groups by name,\n */n * for example, when it's not supported by the current platform.\n
*/n\n@SinceKotlin("1.7")\n\npublic actual operator fun MatchGroupCollection.get(name: String): MatchGroup? {\n
val namedGroups = this as? MatchNamedGroupCollection\n    ?: throw
UnsupportedOperationException("Retrieving groups by name is not supported on this platform.")\n\n    return
namedGroups[name]\n}\n\n/**\n * Represents a compiled regular expression.\n */n * Provides functions to match
strings in text with a pattern, replace the found occurrences and split text around matches.\n */n * For pattern syntax
reference see [MDN RegExp](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/RegExp#Special_characters_meaning_in_regular_expressions)\n
n * and
[http://www.w3schools.com/jsref/jsref_obj_regexp.asp](https://www.w3schools.com/jsref/jsref_obj_regexp.asp).\n
*/n * Note that `RegExp` objects under the hood are constructed with [the `u`
flag](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp/unicode)\n *
that enables Unicode-related features in regular expressions. This also makes the pattern syntax more strict,\n * for
example, prohibiting unnecessary escape sequences.\n */n * @constructor Creates a regular expression from the
specified [pattern] string and the specified set of [options].\n */n\npublic actual class Regex actual
constructor(pattern: String, options: Set<RegexOption>) {\n\n    /** Creates a regular expression from the specified
[pattern] string and the specified single [option].\n */n    public actual constructor(pattern: String, option:
RegexOption) : this(pattern, setOf(option))\n\n    /** Creates a regular expression from the specified [pattern] string
and the default options.\n */n    public actual constructor(pattern: String) : this(pattern, emptySet())\n\n\n    /** The
pattern string of this regular expression.\n */n    public actual val pattern: String = pattern\n
    /** The set of options that were used to create this regular expression.\n */n    public actual val options:
Set<RegexOption> = options.toSet()\n    private val nativePattern: RegExp = RegExp(pattern,
options.toFlags("\\gu"))\n    private var nativeStickyPattern: RegExp? = null\n    private fun initStickyPattern():
RegExp =\n        nativeStickyPattern ?: RegExp(pattern, options.toFlags("\\yu")).also { nativeStickyPattern = it }\n\n
    private var nativeMatchesEntirePattern: RegExp? = null\n    private fun initMatchesEntirePattern(): RegExp =\n
        nativeMatchesEntirePattern ?: run {\n            if (pattern.startsWith('^') && pattern.endsWith('$'))\n
                nativePattern\n            else\n                return RegExp("^${pattern.trimStart('^').trimEnd('$')}$",
options.toFlags("\\gu"))\n        }.also { nativeMatchesEntirePattern = it }\n\n\n    /** Indicates whether the regular
expression matches the entire [input].\n */n    public actual infix fun matches(input:
CharSequence): Boolean {\n        nativePattern.reset()\n        val match = nativePattern.exec(input.toString())\n
return match != null && match.index == 0 && nativePattern.lastIndex == input.length\n    }\n\n    /** Indicates
whether the regular expression can find at least one match in the specified [input].\n */n    public actual fun
containsMatchIn(input: CharSequence): Boolean {\n        nativePattern.reset()\n        return
nativePattern.test(input.toString())\n    }\n\n    @SinceKotlin("1.7")\n
    @WasExperimental(ExperimentalStdlibApi::class)\n    public actual fun matchesAt(input: CharSequence, index:
Int): Boolean {\n        if (index < 0 || index > input.length) {\n            throw IndexOutOfBoundsException("index
out of bounds: $index, input length: ${input.length}")\n        }\n        val pattern = initStickyPattern()\n
pattern.lastIndex = index\n        return pattern.test(input.toString())\n    }\n\n    /**\n * Returns the first match of a
regular

```

expression in the [input], beginning at the specified [startIndex].

- \* @param startIndex An index to start search with, by default 0. Must be not less than zero and not greater than `input.length()`
- \* @return An instance of [MatchResult] if match was found or `null` otherwise.
- \* @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of the [input] char sequence.
- \* @sample `samples.text.Regexps.find`

```
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun find(input: CharSequence, startIndex: Int = 0): MatchResult? {
    if (startIndex < 0 || startIndex > input.length) {
        throw IndexOutOfBoundsException("Start index out of bounds: $startIndex, input length: ${input.length}")
    }
    return nativePattern.findNext(input.toString(), startIndex, nativePattern)
}
```

/\*\* Returns a sequence of all occurrences of a regular expression within the [input] string, beginning at the specified [startIndex].

- \* @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of the [input] char sequence.
- \* @sample `samples.text.Regexps.findAll`

```
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun findAll(input: CharSequence, startIndex: Int = 0): Sequence<MatchResult> {
    if (startIndex < 0 || startIndex > input.length) {
        throw IndexOutOfBoundsException("Start index out of bounds: $startIndex, input length: ${input.length}")
    }
    return generateSequence({ find(input, startIndex) }, { match -> match.next() })
}
```

/\*\* Attempts to match the entire [input] CharSequence against the pattern.

- \* @return An instance of [MatchResult] if the entire input matches or `null` otherwise.

```
public actual fun matchEntire(input: CharSequence): MatchResult? =
    initMatchesEntirePattern().findNext(input.toString(), 0, nativePattern)
```

@SinceKotlin("1.7")  
@WasExperimental(ExperimentalStdlibApi::class)  
public actual fun matchAt(input: CharSequence, index: Int): MatchResult? {

- if (index < 0 || index > input.length) {
- throw IndexOutOfBoundsException("index out of bounds: \$index, input length: \${input.length}")
- }
- return initStickyPattern().findNext(input.toString(), index, nativePattern)

/\*\* Replaces all occurrences of this regular expression in the specified [input] string with specified [replacement] expression.

- \* The replacement string may contain references to the captured groups during a match. Occurrences of ``${name}`` or ``${index}`` in the replacement string will be substituted with the subsequences corresponding to the captured groups with the specified name or index.
- \* In case of ``${index}``, the first digit after '\$' is always treated as a part of group reference. Subsequent digits are incorporated into ``${index}`` only if they would form a valid group reference. Only the digits '0'..'9' are considered as potential components of the group reference. Note that indexes of captured groups start from 1, and the group with index 0 is the whole match.
- \* In case of ``${name}``, the ``${name}`` can consist of latin letters 'a'..'z' and 'A'..'Z', or digits '0'..'9'. The first character must be a letter.
- \* Backslash character `\"` can be used to include the succeeding character as a literal in the replacement string, e.g. `\"` or `\"`.
- \* [Regex.escapeReplacement] can be used if [replacement] have to be treated as a literal string.
- \* @param input the char sequence to find matches of this regular expression in
- \* @param replacement the expression to replace found matches with
- \* @return the result of replacing each occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression
- \* @throws RuntimeException if [replacement] expression is malformed, or capturing group with specified ``${name}`` or ``${index}`` does not exist

```
public actual fun replace(input: CharSequence, replacement: String): String {
    if (!replacement.contains("\\") && !replacement.contains('$')) {
        return input.toString().nativeReplace(nativePattern, replacement)
    }
    return replace(input) { substituteGroupRefs(it, replacement) }
}
```

/\*\* Replaces all occurrences of this regular expression in the specified [input] string with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a replacement for that match.

- \* @param input the char sequence to find matches of this regular expression in
- \* @param replacement the expression to replace found matches with
- \* @return the result of replacing each occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression
- \* @throws RuntimeException if [replacement] expression is malformed, or capturing group with specified ``${name}`` or ``${index}`` does not exist

```
public actual fun replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {
    var match = find(input)
    if (match == null) return input.toString()
    var lastStart
```

```

= 0\n    val length = input.length\n    val sb = StringBuilder(length)\n    do {\n        val foundMatch =
match!!\n        sb.append(input, lastStart, foundMatch.range.start)\n        sb.append(transform(foundMatch))\n
        lastStart = foundMatch.range.endInclusive + 1\n        match = foundMatch.next()\n    } while (lastStart <
length && match != null)\n    if (lastStart < length) {\n        sb.append(input, lastStart, length)\n    }\n    return sb.toString()\n } \n\n /**\n  * Replaces the first occurrence of this regular expression in the specified
[input] string with specified [replacement] expression.\n  *\n  * The replacement string may contain references to
the captured groups during a match. Occurrences of `${name}` or `$index`\n  * in the replacement string will be
substituted with the subsequences corresponding to the captured groups with the specified name or index.\n  * In
case of `$index`,
    the first digit after '$' is always treated as a part of group reference. Subsequent digits are incorporated\n  * into
`index` only if they would form a valid group reference. Only the digits '0'..'9' are considered as potential
components\n  * of the group reference. Note that indexes of captured groups start from 1, and the group with
index 0 is the whole match.\n  * In case of `${name}`, the `name` can consist of latin letters 'a'..'z' and 'A'..'Z', or
digits '0'..'9'. The first character must be\n  * a letter.\n  *\n  * Backslash character '\\' can be used to include the
succeeding character as a literal in the replacement string, e.g. `\\$` or `\\\\`. \n  * [Regex.escapeReplacement] can
be used if [replacement] have to be treated as a literal string.\n  *\n  * @param input the char sequence to find a
match of this regular expression in\n  * @param replacement the expression to replace the found match with\n  *
@return the result of replacing the first
occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression\n  *
@throws RuntimeException if [replacement] expression is malformed, or capturing group with specified `name` or
`index` does not exist\n  */\n public actual fun replaceFirst(input: CharSequence, replacement: String): String {\n
    if (!replacement.contains("\\\\") && !replacement.contains('$')) {\n        val nonGlobalOptions =
options.toFlags("\\u")\n        return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions),
replacement)\n    }\n    val match = find(input) ?: return input.toString()\n    return buildString {\n
append(input.substring(0, match.range.first))\n        append(substituteGroupRefs(match, replacement))\n
append(input.substring(match.range.last + 1, input.length))\n    } \n\n /**\n  * Splits the [input]
CharSequence to a list of strings around matches of this regular
expression.\n  *\n  * @param limit Non-negative value specifying the maximum number of substrings the string
can be split to.\n  * Zero by default means no limit is set.\n  */\n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public actual fun split(input:
CharSequence, limit: Int = 0): List<String> {\n    requireNonNegativeLimit(limit)\n    val matches =
findAll(input).let { if (limit == 0) it else it.take(limit - 1) }\n    val result = mutableListOf<String>()\n    var
lastStart = 0\n    for (match in matches) {\n        result.add(input.subSequence(lastStart,
match.range.start).toString())\n        lastStart = match.range.endInclusive + 1\n    }\n    result.add(input.subSequence(lastStart, input.length).toString())\n    return result\n } \n\n /**\n  * Splits the
[input] CharSequence to a sequence of strings around matches of this regular expression.\n  *\n  * @param limit
Non-negative value specifying
the maximum number of substrings the string can be split to.\n  * Zero by default means no limit is set.\n  *
@sample samples.text.Regexps.splitToSequence\n  */\n @SinceKotlin("1.6")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public actual fun
splitToSequence(input: CharSequence, limit: Int = 0): Sequence<String> {\n
    requireNonNegativeLimit(limit)\n    return sequence {\n        var match = find(input)\n        if (match ==
null || limit == 1) {\n            yield(input.toString())\n            return@sequence\n        }\n        var
nextStart = 0\n        var splitCount = 0\n        do {\n            val foundMatch = match!!\n
yield(input.substring(nextStart, foundMatch.range.first))\n            nextStart = foundMatch.range.endInclusive +
1\n            match = foundMatch.next()\n        } while (++splitCount != limit

```

```

- 1 && match != null)\n\n    yield(input.substring(nextStart, input.length))\n    }\n }\n\n /**\n *
Returns the string representation of this regular expression, namely the [pattern] of this regular expression.\n *\n
* Note that another regular expression constructed from the same pattern string may have different [options]\n *
and may match strings differently.\n */\n public override fun toString(): String = nativePattern.toString()\n\n
actual companion object {\n /**\n * Returns a regular expression that matches the specified [literal] string
literally.\n * No characters of that string will have special meaning when searching for an occurrence of the
regular expression.\n */\n public actual fun fromLiteral(literal: String): Regex = Regex(escape(literal))\n\n
/**\n * Returns a regular expression pattern string that matches the specified [literal] string literally.\n *
No characters
of that string will have special meaning when searching for an occurrence of the regular expression.\n */\n
public actual fun escape(literal: String): String = literal.nativeReplace(patternEscape, "\\|\\$&\\")\n\n /**\n *
Returns a literal replacement expression for the specified [literal] string.\n * No characters of that string will
have special meaning when it is used as a replacement string in [Regex.replace] function.\n */\n public
actual fun escapeReplacement(literal: String): String = literal.nativeReplace(replacementEscape, "\\|\\$&\\")\n\n
private val patternEscape = Regex("\\|\\$*+?.()|\\|\\}|\\|\\|\\|", "\\g\\")\n private val replacementEscape =
Regex("\\|\\$*+?.()|\\|\\}|\\|\\|\\|", "\\g\\")\n internal fun nativeEscapeReplacement(literal: String): String =
literal.nativeReplace(nativeReplacementEscape, "\\$\\$\\$\\")\n private val nativeReplacementEscape =
Regex("\\|\\$*+?.()|\\|\\}|\\|\\|\\|", "\\g\\")\n }\n }\n\nprivate
fun Regex.findNext(input: String, from: Int, nextPattern: Regex): MatchResult? {\n this.lastIndex = from\n
val match = exec(input)\n if (match == null) return null\n val range = match.index..lastIndex - 1\n\n return
object : MatchResult {\n override val range: IntRange = range\n override val value: String\n get() =
match[0]!\n\n override val groups: MatchGroupCollection = object : MatchNamedGroupCollection,
AbstractCollection<MatchGroup?>() {\n override val size: Int get() = match.length\n override fun
iterator(): Iterator<MatchGroup?> = indices.asSequence().map { this[it] }.iterator()\n override fun get(index:
Int): MatchGroup? = match[index]?.let { MatchGroup(it) }\n\n override fun get(name: String): MatchGroup?
{\n // An object of named capturing groups whose keys are the names and values are the capturing
groups\n // or undefined if no named capturing groups
were defined.\n val groups = match.asDynamic().groups\n ?: throw
IllegalArgumentException("Capturing group with name { $name } does not exist. No named capturing group was
defined in Regex")\n // If the match was successful but the group specified failed to match any part of
the input sequence.\n // the associated value is 'undefined'. Value for a non-existent key is also 'undefined'.
Thus, explicitly check if the key exists.\n if (!hasOwnProperty(groups, name))\n throw
IllegalArgumentException("Capturing group with name { $name } does not exist")\n\n val value =
groups[name]\n return if (value == undefined) null else MatchGroup(value as String)\n }\n\n
}\n\n private fun hasOwnProperty(o: Any?, name: String): Boolean {\n return
js("Object").prototype.hasOwnProperty.call(o, name).unsafeCast<Boolean>()\n
}\n\n private var groupValues_: List<String>? = null\n\n override val groupValues: List<String>\n
get() {\n if (groupValues_ == null) {\n groupValues_ = object : AbstractList<String>() {\n
override val size: Int get() = match.length\n\n override fun get(index: Int): String =
match[index] ?: ""\n }\n }\n\n return groupValues_!!\n }\n\n override fun
next(): MatchResult? =\n nextPattern.findNext(input, if (range.isEmpty())
advanceToNextCharacter(range.start) else range.endInclusive + 1, nextPattern)\n\n private fun
advanceToNextCharacter(index: Int): Int {\n if (index < input.lastIndex) {\n val code1 =
input.asDynamic().charCodeAt(index).unsafeCast<Int>()\n if (code1 in 0xD800..0xDBFF) {\n
val code2 = input.asDynamic().charCodeAt(index
+ 1).unsafeCast<Int>()\n if (code2 in 0xDC00..0xDFFF) {\n return index + 2\n
}\n }\n }\n return index + 1\n }\n }\n }\n\n// The same code from K/N
Regex.kt\nprivate fun substituteGroupRefs(match: MatchResult, replacement: String): String {\n var index = 0\n

```

```

val result = StringBuilder()\n\n while (index < replacement.length) {\n    val char = replacement[index++]\n    if (char == '\\\\') {\n        if (index == replacement.length)\n            throw IllegalArgumentException("\nThe Char\n            to be escaped is missing")\n        result.append(replacement[index++])\n    } else if (char == '$') {\n        if\n        (index == replacement.length)\n            throw IllegalArgumentException("\Capturing group index is\n            missing")\n        if (replacement[index] == '{') {\n            val endIndex =\n            replacement.readGroupName(++index)\n            if (index == endIndex)\n                throw IllegalArgumentException("\Named capturing group reference should\n                have a non-empty name")\n            if (endIndex == replacement.length || replacement[endIndex] != '}')\n                throw IllegalArgumentException("\Named capturing group reference is missing trailing '}'")\n            val\n            groupName = replacement.substring(index, endIndex)\n            result.append(match.groups[groupName]?.value\n            ?: "\\")\n            index = endIndex + 1 // skip past '}'\n        } else {\n            if (replacement[index] !in\n            '0'..'9')\n                throw IllegalArgumentException("\Invalid capturing group reference")\n            val groups\n            = match.groups\n            val endIndex = replacement.readGroupIndex(index, groups.size)\n            val\n            groupIndex = replacement.substring(index, endIndex).toInt()\n            if (groupIndex >= groups.size)\n                throw IndexOutOfBoundsException("\Group\n                with index $groupIndex does not exist")\n            result.append(groups[groupIndex]?.value ?: "\\")\n            index = endIndex\n        }\n    } else {\n        result.append(char)\n    }\n}\n\n return result.toString()\n\n// The name must be a legal JavaScript identifier. See https://262.ecma-  
international.org/5.1/#sec-7.6\n// Don't try to validate the referenced group name as it may be time-consuming.\n// If  
the name is invalid, it won't be found in `match.groups` anyway and will throw.\n// Group names in the target Regex  
are validated at creation time.\nprivate fun String.readGroupName(startIndex: Int): Int {\n    var index = startIndex\n    while (index < length) {\n        if (this[index] == '}') {\n            break\n        } else {\n            index++\n        }\n    }\n    return index\n}\n\nprivate fun String.readGroupIndex(startIndex: Int, groupCount: Int): Int {\n    // at least one  
digit after '$' is always  
captured\n    var index = startIndex + 1\n    var groupIndex = this[startIndex] - '0'\n    // capture the largest valid  
group index\n    while (index < length && this[index] in '0'..'9') {\n        val newGroupIndex = (groupIndex * 10) +  
(this[index] - '0')\n        if (newGroupIndex in 0 until groupCount) {\n            groupIndex = newGroupIndex\n            index++\n        } else {\n            break\n        }\n    }\n    return index\n}\n\n"/\n\n * Copyright 2010-2020 JetBrains  
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0  
license that can be found in the license/LICENSE.txt file.\n\n*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\StringsKt")\n@file:Suppress("\EXTENSI  
ON_SHADOWED_BY_MEMBER")\n\npackage kotlin.text\n\nimport kotlin.contracts.*\n\n/**\n * A mutable  
sequence of characters.\n *\n * String builder can be used to efficiently perform multiple string manipulation  
operations.\n */\n\nexpect  
class StringBuilder : Appendable, CharSequence {\n    /** Constructs an empty string builder. */\n    constructor()\n    /** Constructs an empty string builder with the specified initial [capacity]. */\n    constructor(capacity: Int)\n    /** Constructs a string builder that contains the same characters as the specified  
[content] char sequence. */\n    constructor(content: CharSequence)\n    /** Constructs a string builder that  
contains the same characters as the specified [content] string. */\n    @SinceKotlin("1.3")\n    @ExperimentalStdlibApi\n    constructor(content: String)\n\n    override val length: Int\n\n    override operator fun  
get(index: Int): Char\n\n    override fun subSequence(startIndex: Int, endIndex: Int): CharSequence\n\n    override  
fun append(value: Char): StringBuilder\n    override fun append(value: CharSequence?): StringBuilder\n    override  
fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder\n\n    /**\n     * Reverses  
the contents of this string builder and returns this instance.\n     *\n     * Surrogate pairs included in this string  
builder are treated as single characters.\n     *\n     * Therefore, the order of the high-low surrogates is never reversed.\n     *\n     * Note that the reverse operation may produce new surrogate pairs that were unpaired low-surrogates and  
high-surrogates before the operation.\n     *\n     * For example, reversing `\\uDC00\\uD800` produces  
`\\u\\uD800\\uDC00` which is a valid surrogate pair.\n     */\n    fun reverse(): StringBuilder\n}

```

```

Appends the string representation of the specified object [value] to this string builder and returns this instance.\n
*\n * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n
*\n * and then that string was appended to this string builder.\n *^\n fun append(value: Any?): StringBuilder\n
/**\n * Appends the string representation of the specified\n
boolean [value] to this string builder and returns this instance.\n *^\n * The overall effect is exactly as if the\n
[value] were converted to a string by the `value.toString()` method,\n * and then that string was appended to this\n
string builder.\n *^\n @SinceKotlin("1.3")\n fun append(value: Boolean): StringBuilder\n\n /**\n * Appends characters in the specified character array [value] to this string builder and returns this instance.\n *^\n
*\n * Characters are appended in order, starting at the index 0.\n *^\n @SinceKotlin("1.4")\n\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun append(value: CharArray): StringBuilder\n\n /**\n * Appends the specified string [value] to this string builder and returns this instance.\n *^\n * If [value] is `null`,\n
then the four characters `\\null\\` are appended.\n *^\n @SinceKotlin("1.3")\n fun append(value: String?):\n
StringBuilder\n\n /**\n * Returns the current capacity\n
of this string builder.\n *^\n * The capacity is the maximum length this string builder can have before an\n
allocation occurs.\n *^\n * In Kotlin/JS implementation of StringBuilder the value returned from this method\n
may not indicate the actual size of the backing storage.\n *^\n @SinceKotlin("1.3")\n fun capacity(): Int\n\n
/**\n * Ensures that the capacity of this string builder is at least equal to the specified [minimumCapacity].\n
*\n * If the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater\n
capacity.\n * Otherwise, this method takes no action and simply returns.\n *^\n @SinceKotlin("1.4")\n\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun ensureCapacity(minimumCapacity: Int)\n\n /**\n * Returns the index within this string builder of the first occurrence of the specified [string].\n *^\n * Returns `-1`\n
if the specified [string] does not occur in\n
this string builder.\n *^\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun\n
indexOf(string: String): Int\n\n /**\n * Returns the index within this string builder of the first occurrence of the\n
specified [string],\n * starting at the specified [startIndex].\n *^\n * Returns `-1` if the specified [string] does\n
not occur in this string builder starting at the specified [startIndex].\n *^\n @SinceKotlin("1.4")\n\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun indexOf(string: String, startIndex: Int): Int\n\n /**\n * Returns the index within this string builder of the last occurrence of the specified [string].\n *^\n * The last\n
occurrence of empty string `\\` is considered to be at the index equal to `this.length`.\n *^\n * Returns `-1` if\n
the specified [string] does not occur in this string builder.\n *^\n @SinceKotlin("1.4")\n\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun\n
lastIndexOf(string: String): Int\n\n /**\n * Returns the index within this string builder of the last occurrence of\n
the specified [string],\n * starting from the specified [startIndex] toward the beginning.\n *^\n * Returns `-1` if\n
the specified [string] does not occur in this string builder starting at the specified [startIndex].\n *^\n\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun lastIndexOf(string: String,\n
startIndex: Int): Int\n\n /**\n * Inserts the string representation of the specified boolean [value] into this string\n
builder at the specified [index] and returns this instance.\n *^\n * The overall effect is exactly as if the [value]\n
were converted to a string by the `value.toString()` method,\n * and then that string was inserted into this string\n
builder at the specified [index].\n *^\n * @throws IndexOutOfBoundsException if [index] is less than zero or\n
greater than the length of this string\n
builder.\n *^\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun\n
insert(index: Int, value: Boolean): StringBuilder\n\n /**\n * Inserts the specified character [value] into this\n
string builder at the specified [index] and returns this instance.\n *^\n * @throws IndexOutOfBoundsException\n
if [index] is less than zero or greater than the length of this string builder.\n *^\n @SinceKotlin("1.4")\n\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: Char): StringBuilder\n\n /**\n * Inserts characters in the specified character array [value] into this string builder at the specified [index] and\n
returns this instance.\n *^\n * The inserted characters go in same order as in the [value] character array, starting\n
at [index].\n *^\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length

```



```

of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: CharArray): StringBulder\n\n
/**\n * Inserts characters in the specified character sequence [value] into this string builder at the specified
[index] and returns this instance.\n *^n * The inserted characters go in the same order as in the [value] character
sequence, starting at [index].\n *^n * @param index the position in this string builder to insert at.\n *
@param value the character sequence from which characters are inserted. If [value] is `null`, then the four characters
`"null"` are inserted.\n *^n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than
the length of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: CharSequence?):
StringBulder\n\n /**\n * Inserts the string representation of the specified object [value] into this
string builder at the specified [index] and returns this instance.\n *^n * The overall effect is exactly as if the
[value] were converted to a string by the `value.toString()` method,\n * and then that string was inserted into this
string builder at the specified [index].\n *^n * @throws IndexOutOfBoundsException if [index] is less than
zero or greater than the length of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: Any?): StringBulder\n\n /**\n
* Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n *^n * If
[value] is `null`, then the four characters `"null"` are inserted.\n *^n * @throws IndexOutOfBoundsException
if [index] is less than zero or greater than the length of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index:
Int, value: String?): StringBulder\n\n /**\n * Sets the length of this string builder to the specified
[newLength].\n *^n * If the [newLength] is less than the current length, it is changed to the specified
[newLength].\n *^n * Otherwise, null characters `'\u0000'` are appended to this string builder until its length is less
than the [newLength].\n *^n * Note that in Kotlin/JS [set] operator function has non-constant execution time
complexity.\n *^n * Therefore, increasing length of this string builder and then updating each character by index may
slow down your program.\n *^n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if
[newLength] is less than zero.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun setLength(newLength: Int)\n\n /**\n * Returns a
new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length]
(exclusive).\n
*^n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this
string builder.\n *^n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun
substring(startIndex: Int): String\n\n /**\n * Returns a new [String] that contains characters in this string builder
at [startIndex] (inclusive) and up to the [endIndex] (exclusive).\n *^n * @throws IndexOutOfBoundsException
or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when
`startIndex > endIndex`.\n *^n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n
fun substring(startIndex: Int, endIndex: Int): String\n\n /**\n * Attempts to reduce storage used for this string
builder.\n *^n * If the backing storage of this string builder is larger than necessary to hold its current
contents,\n *^n * then it may be resized to
become more space efficient.\n *^n * Calling this method may, but is not required to, affect the value of the
[capacity] property.\n *^n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n
fun trimToSize()\n}\n\n/**\n * Clears the content of this string builder making it empty and returns this instance.\n
*^n * @sample samples.text.Strings.clearStringBuilder\n *^n @SinceKotlin("1.3")\n\npublic expect fun
StringBulder.clear(): StringBulder\n\n/**\n * Sets the character at the specified [index] to the specified [value].\n
*^n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n
*^n @SinceKotlin("1.4")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect operator fun
StringBulder.set(index: Int, value: Char)\n\n/**\n * Replaces characters in the specified range of this string builder
with characters in the specified string [value] and returns this instance.\n *^n * @param startIndex the beginning
(inclusive)

```

of the range to replace.\n \* @param endIndex the end (exclusive) of the range to replace.\n \* @param value the string to replace with.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder\n\n/**\n * Removes the
character at the specified [index] from this string builder and returns this instance.\n * \n * If the `Char` at the
specified [index] is part of a supplementary code point, this method does not remove the entire supplementary
character.\n * \n * @param index the index of `Char` to remove.\n * \n * @throws IndexOutOfBoundsException if
[index] is out of bounds of this string builder.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect
fun StringBuilder.deleteAt(index: Int): StringBuilder\n\n/**\n * Removes characters in the specified range from this
string builder and returns this instance.\n * \n * @param startIndex the beginning (inclusive) of the range to
remove.\n * @param endIndex the end (exclusive) of the range to remove.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder
indices or when `startIndex > endIndex`.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Copies characters from this
string builder into the [destination] character array.\n * \n * @param destination the array to copy to.\n * @param
destinationOffset the position in the array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive)
of the range to copy, 0 by default.\n * @param endIndex the end (exclusive) of the range
to copy, length of this string builder by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when
`startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the
[destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination]
array indices range.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
expect fun StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0,
endIndex: Int = this.length)\n\n/**\n * Appends characters in a subarray of the specified character array [value] to
this string builder and returns this instance.\n * \n * Characters are appended in order, starting at specified
[startIndex].\n * \n * @param value the array from which characters are appended.\n * @param startIndex the
beginning (inclusive)
of the subarray to append.\n * @param endIndex the end (exclusive) of the subarray to append.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] array indices or when `startIndex > endIndex`.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Appends a
subsequence of the specified character sequence [value] to this string builder and returns this instance.\n * \n *
@param value the character sequence from which a subsequence is appended.\n * @param startIndex the beginning
(inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n
*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of the [value] character sequence indices or when `startIndex
> endIndex`.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Inserts
characters in a subarray of the specified character array [value] into this string builder at the specified [index] and
returns this instance.\n * \n * The inserted characters go in same order as in the [value] array, starting at [index].\n
*\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters
are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the
end (exclusive) of the subarray to insert.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when
```

```

`startIndex > endIndex`.n * @throws IndexOutOfBoundsException if [index] is less than zero or greater
than the length of this string builder.n
*/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic expect fun
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuildern/n/**n *
Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified
[index] and returns this instance.n *n * The inserted characters go in the same order as in the [value] character
sequence, starting at [index].n *n * @param index the position in this string builder to insert at.n * @param value
the character sequence from which a subsequence is inserted.n * @param startIndex the beginning (inclusive) of the
subsequence to insert.n * @param endIndex the end (exclusive) of the subsequence to insert.n *n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.n
* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string
builder.n */n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic expect fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int):
StringBuildern/n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")n@Deprecated("Use
append(value: Any?) instead", ReplaceWith("append(value = obj)"),
DeprecationLevel.WARNING)n@kotlin.internal.InlineOnlynpublic inline fun StringBuilder.append(obj: Any?):
StringBuilder = this.append(obj)n/n/**n * Builds new string by populating newly created [StringBuilder] using
provided [builderAction]n * and then converting it to [String].n */n@kotlin.internal.InlineOnlynpublic inline fun
buildString(builderAction: String Builder.() -> Unit): String {n contract { callsInPlace(builderAction,
InvocationKind.EXACTLY_ONCE) }n return StringBuilder().apply(builderAction).toString()n}n/n/**n * Builds new string by populating newly created [StringBuilder] initialized with the given [capacity]n * using
provided [builderAction] and then converting it to [String].n
*/n@SinceKotlin("1.1")n@kotlin.internal.InlineOnlynpublic inline fun buildString(capacity: Int, builderAction:
String Builder.() -> Unit): String {n contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE)
}n return StringBuilder(capacity).apply(builderAction).toString()n}n/n/**n * Appends all arguments to the
given String Builder.n */npublic fun StringBuilder.append(vararg value: String?): String Builder {n for (item in
value)n append(item)n return thisn}n/n/**n * Appends all arguments to the given String Builder.n
*/npublic fun StringBuilder.append(vararg value: Any?): String Builder {n for (item in value)n
append(item)n return thisn}n/n// KT-52336n@Deprecated("Use appendRange instead.",
ReplaceWith("this.appendRange(str, offset, offset
+ len)"), level =
DeprecationLevel.ERROR)n@kotlin.internal.InlineOnlyn@Suppress("UNUSED_PARAMETER")npublic inline
fun StringBuilder.append(str: CharArray, offset: Int, len: Int): String Builder = throw NotImplementedError()n/n/**
Appends a line feed character (`\n`) to this String Builder.
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun StringBuilder.appendLine():
String Builder = append("\n")n/n/** Appends [value] to this [StringBuilder], followed by a line feed character
(`\n`). */n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun StringBuilder.appendLine(value:
CharSequence?): String Builder = append(value).appendLine()n/n/** Appends [value] to this [StringBuilder],
followed by a line feed character (`\n`). */n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun
StringBuilder.appendLine(value: String?): String Builder = append(value).appendLine()n/n/** Appends [value] to
this [StringBuilder], followed by a line
feed character (`\n`). */n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun
StringBuilder.appendLine(value: Any?): String Builder = append(value).appendLine()n/n/** Appends [value] to this
[StringBuilder], followed by a line feed character (`\n`).
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun StringBuilder.appendLine(value:
CharArray): String Builder = append(value).appendLine()n/n/** Appends [value] to this [StringBuilder], followed
by a line feed character (`\n`). */n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun

```

StringBuilder.appendLine(value: Char): StringBuilder = append(value).appendLine()\n\n\*\* Appends [value] to this [StringBuilder], followed by a line feed character (`\n`).

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value: Boolean): StringBuilder = append(value).appendLine()\n",/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
```

```
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport
```

```
kotlin.js.RegExp\n\n@kotlin.internal.InlineOnly\n\ninternal actual inline fun String.nativeIndexOf(ch: Char, fromIndex: Int): Int = nativeIndexOf(ch.toString(), fromIndex)\n\n@kotlin.internal.InlineOnly\n\ninternal actual inline fun String.nativeLastIndexOf(ch: Char, fromIndex: Int): Int = nativeLastIndexOf(ch.toString(), fromIndex)\n\n**\n * Returns `true` if this string starts with the specified prefix.\n
```

```
*\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual fun String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase)\n        return nativeStartsWith(prefix, 0)\n    else\n        return regionMatches(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n**\n * Returns `true` if a substring of this string starting at the specified offset [startIndex] starts with the specified prefix.\n
```

```
*\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual fun String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase)\n        return nativeStartsWith(prefix, startIndex)\n    else\n        return regionMatches(startIndex, prefix, 0, prefix.length, ignoreCase)\n}\n\n**\n * Returns `true` if this string ends with the specified suffix.\n
```

```
*\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual fun String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase)\n        return nativeEndsWith(suffix)\n    else\n        return regionMatches(length - suffix.length, suffix, 0, suffix.length, ignoreCase)\n}\n\n@Deprecated("Use Regex.matches() instead", ReplaceWith("regex.toRegex().matches(this)"))\n\n@DeprecatedSinceKotlin(warningSince = "1.6")\n\npublic fun String.matches(regex: String): Boolean {\n    @Suppress("DEPRECATION")\n    val result = this.match(regex)\n    return result != null && result.size != 0\n}\n\n**\n * Returns `true` if this string is empty or consists solely of whitespace characters.\n * \n * @sample samples.text.Strings.stringIsBlank\n * \n\npublic actual fun CharSequence.isBlank(): Boolean = length == 0 || indices.all { this[it].isWhitespace() }\n\n**\n * Returns `true` if this string is equal to [other], optionally ignoring character case.\n * \n * Two strings are considered to be equal if they have the same length and the same character at the same index.\n * \n * If [ignoreCase] is true, the result of `Char.uppercaseChar().lowercaseChar()` on each character is compared.\n * \n * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.\n
```

```
*\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual fun String?.equals(other: String?, ignoreCase: Boolean = false): Boolean {\n    if (this == null) return other == null\n    if (other == null) return false\n    if (!ignoreCase)\n        return this == other\n    if (this.length != other.length) return false\n    for (index in 0 until this.length) {\n        val thisChar = this[index]\n        val otherChar = other[index]\n        if (!thisChar.equals(otherChar, ignoreCase))\n            return false\n    }\n    return true\n}\n\n**\n * Returns `true` if the specified range in this char sequence is equal to the specified range in another char sequence.\n * \n * @param thisOffset the start offset in this char sequence of the substring to compare.\n * \n * @param other the string against a substring of which the comparison is performed.\n * \n * @param otherOffset the start offset in the other char sequence of the substring to compare.\n * \n * @param length the length of the substring to compare.\n
```

```
*\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual fun CharSequence.regionMatches(\n    thisOffset: Int,\n    other: CharSequence,\n    otherOffset: Int,\n    length: Int,\n    ignoreCase: Boolean = false\n): Boolean = regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)\n\n**\n * Returns `true` if the specified range in this string is equal to the specified range in another string.\n * \n * @param
```

thisOffset the start offset in this string of the substring to compare.\n \* @param other the string against a substring of which the comparison is performed.\n \* @param otherOffset the start offset in the other string of the substring to compare.\n \* @param length the length of the substring to compare.\n

```

*\/n@SinceKotlin("1.9")n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")npublic
actual fun String.regionMatches(n thisOffset: Int, n other: String, n otherOffset: Int, n length: Int, n
ignoreCase: Boolean = false)n): Boolean = regionMatchesImpl(thisOffset, other, otherOffset, length,
ignoreCase)n\n\n/**n * Returns a copy of this string having its first letter titlecased using the rules of the default
locale,n * or the original string
if it's empty or already starts with a title case letter.n *n * The title case of a character is usually the same as its
upper case with several exceptions.n * The particular list of characters with the special title case form depends on
the underlying platform.n *n * @sample samples.text.Strings.capitalize\n *\/n@Deprecated("Use replaceFirstChar
instead.", ReplaceWith("replaceFirstChar { if (it.isLowerCase()) it.titlecase() else it.toString()
}"))n@DeprecatedSinceKotlin(warningSince = "1.5")npublic actual fun String.capitalize(): String {n return if
(isNotEmpty()) substring(0, 1).uppercase() + substring(1) else this\n}\n\n/**n * Returns a copy of this string having
its first letter lowercased using the rules of the default locale,n * or the original string if it's empty or already starts
with a lower case letter.n *n * @sample samples.text.Strings.decapitalize\n *\/n@Deprecated("Use
replaceFirstChar instead.", ReplaceWith("replaceFirstChar { it.lowercase()
}"))n@DeprecatedSinceKotlin(warningSince
= "1.5")npublic actual fun String.decapitalize(): String {n return if (isNotEmpty()) substring(0, 1).lowercase()
+ substring(1) else this\n}\n\n/**n * Returns a string containing this char sequence repeated [n] times.n * @throws
[IllegalArgumentException] when n < 0.n * @sample samples.text.Strings.repeat\n *\/npublic actual fun
CharSequence.repeat(n: Int): String {n require(n >= 0) { "Count 'n' must be non-negative, but was $n." }n
return when (n) {n 0 -> ""n 1 -> this.toString()\n else -> {n var result = ""n if
(!isEmpty()) {n var s = this.toString()\n var count = n\n while (true) {n if
((count and 1) == 1) {n result += s\n }n count = count ushr 1\n if
(count == 0) {n break\n }n s += s\n }n }n return result\n }n }n}\n\n/**n * Returns a new string
obtained by replacing all occurrences of the [oldValue] substring in this string\n * with the specified [newValue]
string.n *n * @sample samples.text.Strings.replace\n
*\/n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")npublic actual fun
String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =n
nativeReplace(RegExp(Regex.escape(oldValue)), if (ignoreCase) "gui" else "gu"),
Regex.nativeEscapeReplacement(newValue))n\n/**n * Returns a new string with all occurrences of [oldChar]
replaced with [newChar].n *n * @sample samples.text.Strings.replace\n
*\/n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")npublic actual fun
String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =n
nativeReplace(RegExp(Regex.escape(oldChar.toString())), if (ignoreCase) "gui" else "gu"),
newChar.toString())n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")npublic
actual fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =n
nativeReplace(RegExp(Regex.escape(oldValue)), if (ignoreCase) "ui" else "u"),
Regex.nativeEscapeReplacement(newValue))n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGU
MENTS")npublic actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false):
String =n nativeReplace(RegExp(Regex.escape(oldChar.toString())), if (ignoreCase) "ui" else "u"),
newChar.toString())n", /*n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.n *\/npackage kotlin.text\n\n/** Returns the negative [size] if [throwOnMalformed] is
false, throws [CharacterCodingException] otherwise. */nprivate fun malformed(size: Int, index: Int,
throwOnMalformed:

```

```

Boolean): Int {
    if (throwOnMalformed) throw CharacterCodingException("Malformed sequence starting at
    ${index - 1}")
    return -size
}

Returns code point corresponding to UTF-16 surrogate pair, where
the first of the pair is the [high] and the second is in the [string] at the [index].
Returns zero if the pair is
malformed and [throwOnMalformed] is false.
@throws CharacterCodingException if the pair is malformed
and [throwOnMalformed] is true.

private fun codePointFromSurrogate(string: String, high: Int, index: Int,
endIndex: Int, throwOnMalformed: Boolean): Int {
    if (high !in 0xD800..0xDBFF || index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }
    val low = string[index].code
    if (low !in
    0xDC00..0xDFFF) {
        return malformed(0, index, throwOnMalformed)
    }
    return 0x10000 + ((high and
    0x3FF) shl 10) or (low and 0x3FF)
}

Returns code point corresponding to UTF-8 sequence
of two bytes, where the first byte of the sequence is the [byte1] and the second byte is in the [bytes] array at the
[index].
Returns zero if the sequence is malformed and [throwOnMalformed] is false.
@throws
CharacterCodingException if the sequence of two bytes is malformed and [throwOnMalformed] is true.

private fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed:
Boolean): Int {
    if (byte1 and 0x1E == 0 || index >= endIndex) {
        return malformed(0, index,
        throwOnMalformed)
    }
    val byte2 = bytes[index].toInt()
    if (byte2 and 0xC0 != 0x80) {
        return
        malformed(0, index, throwOnMalformed)
    }
    return (byte1 shl 6) xor byte2 xor 0xF8
}

Returns
code point corresponding to UTF-8 sequence of three bytes, where the first byte of the sequence is the [byte1]
and the others are in the [bytes] array starting from the [index].
Returns a non-positive value indicating number
of bytes from [bytes] included in malformed sequence if the sequence is malformed and [throwOnMalformed]
is false.
@throws CharacterCodingException if the sequence of three bytes is malformed and
[throwOnMalformed] is true.

private fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex:
Int, throwOnMalformed: Boolean): Int {
    if (index >= endIndex) {
        return malformed(0, index,
        throwOnMalformed)
    }
    val byte2 = bytes[index].toInt()
    if (byte1 and 0xF == 0) {
        if (byte2 and
        0xE0 != 0xA0) {
            // Non-shortest form
            return malformed(0, index, throwOnMalformed)
        }
    } else if (byte1 and 0xF == 0xD) {
        if (byte2 and 0xE0 != 0x80) {
            // Surrogate code point
            return malformed(0, index, throwOnMalformed)
        }
    } else if (byte2 and 0xC0 != 0x80) {
        return
        malformed(0, index, throwOnMalformed)
    }
    if (index + 1 == endIndex) {
        return
        malformed(1, index, throwOnMalformed)
    }
    val byte3 = bytes[index + 1].toInt()
    if (byte3 and 0xC0 !=
    0x80) {
        return malformed(1, index, throwOnMalformed)
    }
    return (byte1 shl 12) xor (byte2 shl 6) xor
    byte3 xor -0x1E080
}

Returns code point corresponding to UTF-8 sequence of four bytes, where the
first byte of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].
Returns a
non-positive value indicating number of bytes from [bytes] included in malformed sequence if the sequence is
malformed and [throwOnMalformed] is false.
@throws CharacterCodingException if the sequence of four
bytes is malformed and [throwOnMalformed] is true.

private fun codePointFrom4(bytes: ByteArray, byte1:
Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    if (index >= endIndex) {
        return malformed(0,
        index, throwOnMalformed)
    }
    val byte2 = bytes[index].toInt()
    if (byte1 and 0xF == 0x0) {
        if (byte2 and 0xF0 <= 0x80) {
            // Non-shortest form
            return
            malformed(0, index, throwOnMalformed)
        }
    } else if (byte1 and 0xF == 0x4) {
        if (byte2 and 0xF0
        != 0x80) {
            // Out of Unicode code points domain (larger than U+10FFFF)
            return malformed(0,
            index, throwOnMalformed)
        }
    } else if (byte1 and 0xF > 0x4) {
        return malformed(0, index,
        throwOnMalformed)
    } else if (byte2 and 0xC0 != 0x80) {
        return malformed(0, index,
        throwOnMalformed)
    }
    if (index + 1 == endIndex) {
        return malformed(1, index,
        throwOnMalformed)
    }
    val byte3 = bytes[index + 1].toInt()
    if (byte3 and 0xC0 != 0x80) {
        return
        malformed(1, index, throwOnMalformed)
    }
    if (index + 2 == endIndex) {
        return malformed(2, index,
        throwOnMalformed)
    }
    val byte4 = bytes[index + 2].toInt()
    if (byte4 and 0xC0 != 0x80) {
        return
        malformed(2, index, throwOnMalformed)
    }
    return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl
    6) xor byte4 xor 0x381F80
}

Maximum number of bytes needed to encode a single char.
Code
points in `0..0x7F` are encoded in a single byte.
Code points in `0x80..0x7FF` are encoded in two bytes.

```

```

Code points in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.\n * Surrogate code points in
`0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\n * Code points in
`0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.\n */\nprivate
const val MAX_BYTES_PER_CHAR = 3\n\n/**\n * The byte sequence a malformed UTF-16 char sequence is
replaced by.\n */\nprivate val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(),
0xBF.toByte(), 0xBD.toByte())\n\n/**\n * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\n
*\n * @param string the string to
encode.\n * @param startIndex the start offset (inclusive) of the substring to encode.\n * @param endIndex the end
offset (exclusive) of the substring to encode.\n * @param throwOnMalformed whether to throw on malformed char
sequence or replace by the [REPLACEMENT_BYTE_SEQUENCE].\n * @throws CharacterCodingException
if the char sequence is malformed and [throwOnMalformed] is true.\n */\ninternal fun encodeUtf8(string: String,
startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): ByteArray {\n    require(startIndex >= 0 && endIndex
<= string.length && startIndex <= endIndex)\n\n    val bytes = ByteArray((endIndex - startIndex) *
MAX_BYTES_PER_CHAR)\n    var byteIndex = 0\n    var charIndex = startIndex\n\n    while (charIndex <
endIndex) {\n        val code = string[charIndex++].code\n        when {\n            code < 0x80 ->\n                bytes[byteIndex++] = code.toByte()\n            code < 0x800 -> {\n                bytes[byteIndex++] = ((code shr 6) or
0xC0).toByte()\n                bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n            }\n            code < 0xD800 || code >=
0xE000 -> {\n                bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\n                bytes[byteIndex++] =
(((code shr 6) and 0x3F) or 0x80).toByte()\n                bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n            }\n            else -> { // Surrogate char value\n                val codePoint = codePointFromSurrogate(string, code,
charIndex, endIndex, throwOnMalformed)\n                if (codePoint <= 0) {\n                    bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[0]\n                    bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[1]\n                    bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[2]\n                } else {\n                    bytes[byteIndex++] = ((codePoint shr
18) or 0xF0).toByte()\n                    bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\n                    bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\n                    bytes[byteIndex++] =
((codePoint and 0x3F) or 0x80).toByte()\n                    charIndex++\n                }\n            }\n        }\n    }\n\n    return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\n}\n\n/**\n * The character a malformed
UTF-8 byte sequence is replaced by.\n */\nprivate const val REPLACEMENT_CHAR = "\uFFFF"\n\n/**\n *
Decodes the UTF-8 [bytes] array and returns the resulting [String].\n */\n * @param bytes the byte array to decode.\n
*\n * @param startIndex the start offset (inclusive) of the array to be decoded.\n * @param endIndex the end offset
(exclusive) of the array to be encoded.\n * @param throwOnMalformed whether to throw on malformed byte
sequence or replace by the [REPLACEMENT_CHAR].\n * @throws CharacterCodingException if the array is
malformed UTF-8 byte sequence and [throwOnMalformed] is true.\n */\ninternal fun decodeUtf8(bytes: ByteArray,
startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {\n    require(startIndex >= 0 && endIndex <=
bytes.size && startIndex <= endIndex)\n\n    var byteIndex = startIndex\n    val stringBuilder = StringBuilder()\n\n    while (byteIndex < endIndex) {\n        val byte = bytes[byteIndex++].toInt()\n        when {\n            byte >= 0 ->\n                stringBuilder.append(byte.toChar())\n            byte shr 5 == -2 -> {\n                val code =
codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else {\n                    stringBuilder.append(code.toChar())\n                    byteIndex += 1\n                }\n            }\n            byte shr 4 == -2 -
> {\n                val code = codePointFrom3(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n                if
(code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else {\n                    stringBuilder.append(code.toChar())\n                    byteIndex += 2\n                }\n            }\n            byte shr
3 == -2 -> {\n                val code = codePointFrom4(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n

```

```

if (code <= 0) {\n                stringBuilder.append(REPLACEMENT_CHAR)\n                byteIndex += -code\n        } else {\n                val high = (code - 0x10000) shr 10 or 0xD800\n                val low = (code and\n0x3FF) or 0xDC00\n                stringBuilder.append(high.toChar())\nstringBuilder.append(low.toChar())\n                byteIndex += 3\n        }\n        } else -> {\n        malformed(0, byteIndex, throwOnMalformed)\n        stringBuilder.append(REPLACEMENT_CHAR)\n    }\n}\n}\n}\n return stringBuilder.toString()\n}"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin\nProgramming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be\nfound in the license/LICENSE.txt file.\n */\npackage kotlin\n/**\n * Returns the detailed description of this\nthrowable with its stack trace.\n * The detailed description includes:\n * - the short description (see\n [Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of the exceptions\nthat were [suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed description of\neach throwable in the [Throwable.cause] chain.\n */\n@SinceKotlin("1.4")\npublic actual fun\nThrowable.stackTraceToString(): String = ExceptionTraceBuilder().buildFor(this)\n/**\n * Prints the [detailed\ndescription][Throwable.stackTraceToString] of this throwable to console error output.\n */\n@SinceKotlin("1.4")\npublic\nactual fun Throwable.printStackTrace() {\n    console.error(this.stackTraceToString())\n}\n/**\n * Adds the\nspecified exception to the list of exceptions that were\n * suppressed in order to deliver this exception.\n */\n@SinceKotlin("1.4")\npublic actual fun Throwable.addSuppressed(exception: Throwable) {\n    if (this !==\nexception) {\n        val suppressed = this.asDynamic()._suppressed.unsafeCast<MutableList<Throwable>?>()\nif (suppressed == null) {\n            this.asDynamic()._suppressed = mutableListOf(exception)\n        } else {\n        suppressed.add(exception)\n        }\n    }\n}\n/**\n * Returns a list of all exceptions that were suppressed in order\nto deliver this exception.\n */\n@SinceKotlin("1.4")\npublic actual val Throwable.suppressedExceptions:\nList<Throwable>\n    get() {\n        return this.asDynamic()._suppressed?.unsafeCast<List<Throwable>>() ?:\nemptyList()\n    }\n\nprivate class ExceptionTraceBuilder {\n    private val target\n= StringBuilder()\n    private val visited = arrayOf<Throwable>()\n    private var topStack: String = ""\n    private\nvar topStackStart: Int = 0\n    fun buildFor(exception: Throwable): String {\n        exception.dumpFullTrace("",\n        "")\n        return target.toString()\n    }\n    private fun hasSeen(exception: Throwable): Boolean = visited.any { it\n=== exception }\n    private fun Throwable.dumpFullTrace(indent: String, qualifier: String) {\nthis.dumpSelfTrace(indent, qualifier) || return\n        var cause = this.cause\n        while (cause != null) {\n        cause.dumpSelfTrace(indent, "Caused by: ") || return\n            cause = cause.cause\n        }\n    }\n    private fun\nThrowable.dumpSelfTrace(indent: String, qualifier: String): Boolean {\n        target.append(indent).append(qualifier)\n        val shortInfo = this.toString()\n        if (hasSeen(this)) {\n        target.append("[CIRCULAR REFERENCE, SEE ABOVE: ").append(shortInfo).append("\\n")\n        }\n        return false\n    }\n    visited.asDynamic().push(this)\n    var stack = this.asDynamic().stack as\nString?\n    if (stack != null) {\n        val stackStart = stack.indexOf(shortInfo).let { if (it < 0) 0 else it +\nshortInfo.length }\n        if (stackStart == 0) target.append(shortInfo).append("\\n")\n        if\n(topStack.isEmpty()) {\n            topStack = stack\n            topStackStart = stackStart\n        } else {\n        stack = dropCommonFrames(stack, stackStart)\n        }\n        if (indent.isNotEmpty()) {\n            // indent\nstack, but avoid indenting exception message lines\n            val messageLines = if (stackStart == 0) 0 else 1 +\nshortInfo.count { c -> c == '\\n' }\n            stack.lineSequence().forEachIndexed { index: Int, line: String ->\n            if (index >= messageLines) target.append(indent)\n            target.append(line).append("\\n")\n            }\n        } else {\n            target.append(stack).append("\\n")\n        }\n    } else {\n        target.append(shortInfo).append("\\n")\n    }\n    val suppressed = suppressedExceptions\n    if\n(suppressed.isNotEmpty()) {\n        val suppressedIndent = indent + "  "\n        for (s in suppressed) {\n        s.dumpFullTrace(suppressedIndent, "Suppressed: ")\n        }\n    }\n    return true\n}\n\nprivate fun\ndropCommonFrames(stack: String, stackStart: Int): String {\n    var commonFrames: Int = 0\n    var lastBreak:\nInt = 0\n    var preLastBreak: Int = 0\n    for (pos in 0 until minOf(topStack.length - topStackStart, stack.length

```



```

- stackStart)) {\n        val c = stack[stack.lastIndex - pos]\n        if (c != topStack[topStack.lastIndex - pos])\nbreak\n        if (c == '\\n') {\n            commonFrames += 1\n            preLastBreak = lastBreak\n            lastBreak = pos\n        }\n        if (commonFrames <= 1) return stack\n        while (preLastBreak\n > 0 && stack[stack.lastIndex - (preLastBreak - 1)] == ' ')\n            preLastBreak -= 1\n            // leave 1 common\nframe to ease matching with the top exception stack\n        return stack.dropLast(preLastBreak) + \"... and\n${commonFrames - 1} more common stack frames skipped\"\n    }\n}\"/*\n * Copyright 2010-2021 JetBrains s.r.o.\nand Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license\nthat can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.js.json\nimport\nkotlin.math.*\n\ninternal actual inline val durationAssertionsEnabled: Boolean get() = true\n\ninternal actual fun\nformatToExactDecimals(value: Double, decimals: Int): String {\n    val rounded = if (decimals == 0) {\n        value\n    } else {\n        val pow = 10.0.pow(decimals)\n        JsMath.round(abs(value)\n * pow) / pow * sign(value)\n    }\n    return if (abs(rounded) < 1e21) {\n        // toFixed switches to scientific format\nafter 1e21\n        rounded.asDynamic().toFixed(decimals).unsafeCast<String>()\n    } else {\n        // toPrecision\noutputs the specified number of digits, but only for positive numbers\n        val positive = abs(rounded)\n        val\npositiveString = positive.asDynamic().toFixed(ceil(log10(positive)) + decimals).unsafeCast<String>()\n        if\n(rounded < 0) \"-$positiveString\" else positiveString\n    }\n}\n\ninternal actual fun formatUpToDecimals(value:\nDouble, decimals: Int): String {\n    return value.asDynamic().toLocaleString(\"en-us\",\njson(\"maximumFractionDigits\" to decimals)).unsafeCast<String>()\n}\n}\"/*\n * Copyright 2010-2021 JetBrains\ns.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0\nlicense that can be found in the license/LICENSE.txt file.\n */\n\npackage\nkotlin.time\n\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\npublic\nactual enum class DurationUnit(internal val scale: Double) {\n    /**\n * Time unit representing one nanosecond,\nwhich is 1/1000 of a microsecond.\n    */\n    NANOSECONDS(1e0),\n    /**\n * Time unit representing one\nmicrosecond, which is 1/1000 of a millisecond.\n    */\n    MICROSECONDS(1e3),\n    /**\n * Time unit\nrepresenting one millisecond, which is 1/1000 of a second.\n    */\n    MILLISECONDS(1e6),\n    /**\n * Time\nunit representing one second.\n    */\n    SECONDS(1e9),\n    /**\n * Time unit representing one minute.\n    */\n    MINUTES(60e9),\n    /**\n * Time unit representing one hour.\n    */\n    HOURS(3600e9),\n    /**\n * Time\nunit representing one day, which is always equal to 24 hours.\n    */\n    DAYS(86400e9);\n}\n\n@SinceKotlin(\"1.3\")\ninternal actual fun convertDurationUnit(value: Double, sourceUnit:\nDurationUnit, targetUnit: DurationUnit): Double {\n\n    val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n    return when {\n        sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)\n        sourceCompareTarget < 0 -> value /\n(targetUnit.scale / sourceUnit.scale)\n        else -> value\n    }\n}\n\n@SinceKotlin(\"1.5\")\ninternal actual fun\nconvertDurationUnitOverflow(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long {\n    val\nsourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n    return when {\n        sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale).toLong()\n        sourceCompareTarget < 0\n-> value / (targetUnit.scale / sourceUnit.scale).toLong()\n        else -> value\n    }\n}\n\n@SinceKotlin(\"1.5\")\ninternal actual fun convertDurationUnit(value: Long, sourceUnit: DurationUnit,\ntargetUnit: DurationUnit): Long {\n    val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n    return when {\n        sourceCompareTarget\n> 0 -> {\n            val scale = (sourceUnit.scale / targetUnit.scale).toLong()\n            val result = value * scale\n            when {\n                result / scale == value -> result\n                value > 0 -> Long.MAX_VALUE\n                else ->\nLong.MIN_VALUE\n            }\n        }\n        sourceCompareTarget < 0 -> value / (targetUnit.scale /\nsourceUnit.scale).toLong()\n        else -> value\n    }\n}\n\n}\"/*\n * Copyright 2010-2022 JetBrains s.r.o. and\nKotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that\ncan be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.math.truncate\nimport\nkotlin.time.Duration.Companion.milliseconds\nimport\nkotlin.time.TimeSource.Monotonic.ValueTimeMark\n\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\") //

```

```

visibility\ninternal actual typealias ValueTimeMarkReading = Any\n\ninternal interface DefaultTimeSource :
TimeSource.WithComparableMarks
{\n  override fun markNow(): ValueTimeMark\n  fun elapsedFrom(timeMark: ValueTimeMark): Duration\n
fun differenceBetween(one: ValueTimeMark, another: ValueTimeMark): Duration\n  fun
adjustReading(timeMark: ValueTimeMark, duration: Duration):
ValueTimeMark\n}\n\n@SinceKotlin("1.3")\ninternal actual object MonotonicTimeSource : DefaultTimeSource,
TimeSource.WithComparableMarks { // TODO: interface should not be required here\n\n  private val
actualSource: DefaultTimeSource = run {\n    val isNode: Boolean = js("typeof process !== 'undefined' &&
process.versions && !process.versions.node")\n\n    if (isNode)\nHrTimeSource(js("process").unsafeCast<Process>())\n    else\n      js("typeof self !== 'undefined' ? self :
globalThis")\n      .unsafeCast<GlobalPerformance?>()\n      ?.performance\n?.let(::PerformanceTimeSource)\n      ?: DateNowTimeSource\n  }\n\n  actual override fun markNow():
ValueTimeMark
= actualSource.markNow()\n  actual override fun elapsedFrom(timeMark: ValueTimeMark): Duration =
actualSource.elapsedFrom(timeMark)\n  actual override fun differenceBetween(one: ValueTimeMark, another:
ValueTimeMark): Duration = actualSource.differenceBetween(one, another)\n\n  actual override fun
adjustReading(timeMark: ValueTimeMark, duration: Duration): ValueTimeMark =\nactualSource.adjustReading(timeMark, duration)\n}\n\ninternal external interface Process {\n  fun hrtime(time:
Array<Double> = definedExternally): Array<Double>\n}\n\n@SinceKotlin("1.3")\ninternal class
HrTimeSource(private val process: Process) : DefaultTimeSource {\n  @Suppress("NOTHING_TO_INLINE")\n  private class Reading(val components: Array<Double>) {\n    inline operator fun component1(): Double =
components.component1()\n    inline operator fun component2(): Double = components.component2()\n
override fun equals(other: Any?): Boolean = other is Reading && this.components
contentEquals other.components\n    override fun hashCode(): Int = components.contentHashCode()\n
override fun toString(): String = components.contentToString()\n  }\n\n  override fun markNow():
ValueTimeMark =\n    ValueTimeMark(Reading(process.hrtime()))\n\n  override fun elapsedFrom(timeMark:
ValueTimeMark): Duration =\n    process.hrtime((timeMark.reading as Reading).components)\n    .let {
(seconds, nanos) -> seconds.toDuration(DurationUnit.SECONDS) +
nanos.toDuration(DurationUnit.NANOSECONDS) }\n\n  override fun differenceBetween(one: ValueTimeMark,
another: ValueTimeMark): Duration {\n    val (s1, n1) = one.reading as Reading\n    val (s2, n2) =
another.reading as Reading\n    return (if (s1 == s2 && n1 == n2) Duration.ZERO else (s1 -
s2).toDuration(DurationUnit.SECONDS)) + (n1 - n2).toDuration(DurationUnit.NANOSECONDS)\n  }\n\n
override fun adjustReading(timeMark: ValueTimeMark, duration: Duration): ValueTimeMark
=\n    (timeMark.reading as Reading).let { (seconds, nanos) ->\n      duration.toComponents { _, addNanos -
>\n        val resultSeconds = sumCheckNaN(seconds +
truncate(duration.toDouble(DurationUnit.SECONDS)))\n        Reading(arrayOf(resultSeconds, if
(resultSeconds.isFinite()) nanos + addNanos else 0.0))\n      }\n    }.let(TimeSource.Monotonic::ValueTimeMark)\n}\n\n@SinceKotlin("1.3")\ninternal class PerformanceTimeSource(private val
performance: Performance) : DefaultTimeSource { // AbstractDoubleTimeSource(unit =
DurationUnit.MILLISECONDS) {\n  private fun read(): Double = performance.now()\n\n  override fun
markNow(): ValueTimeMark = ValueTimeMark(read())\n  override fun elapsedFrom(timeMark:
ValueTimeMark): Duration = (read() - timeMark.reading as Double).milliseconds\n\n  override fun
differenceBetween(one: ValueTimeMark, another: ValueTimeMark): Duration
{\n    val ms1 = one.reading as Double\n    val ms2 = another.reading as Double\n    return if (ms1 == ms2)
Duration.ZERO else (ms1 - ms2).milliseconds\n  }\n\n  override fun adjustReading(timeMark: ValueTimeMark,
duration: Duration): ValueTimeMark =\n    ValueTimeMark(sumCheckNaN(timeMark.reading as Double +
duration.toDouble(DurationUnit.MILLISECONDS)))\n\n  override fun toString(): String =

```

```

\"TimeSource(self.performance.now())\"}\n}\n\n@SinceKotlin(\"1.3\")\ninternal object DateNowTimeSource :
DefaultTimeSource {\n    private fun read(): Double = kotlin.js.Date.now()\n    override fun markNow():
ValueTimeMark = ValueTimeMark(read())\n    override fun elapsedFrom(timeMark: ValueTimeMark): Duration =
(read() - timeMark.reading as Double).milliseconds\n    override fun differenceBetween(one: ValueTimeMark,
another: ValueTimeMark): Duration {\n        val ms1 = one.reading as Double\n        val ms2 = another.reading as
Double\n        return if (ms1 == ms2)
Duration.ZERO else (ms1 - ms2).milliseconds\n    }\n    override fun adjustReading(timeMark: ValueTimeMark,
duration: Duration): ValueTimeMark =\n        ValueTimeMark(sumCheckNaN(timeMark.reading as Double +
duration.toDouble(DurationUnit.MILLISECONDS)))\n    override fun toString(): String =
\"TimeSource(Date.now())\"}\n}\n\ninternal external interface GlobalPerformance {\n    val performance:
Performance\n}\n\ninternal external interface Performance {\n    fun now(): Double\n}\n\nprivate fun
sumCheckNaN(value: Double): Double = value.also { if (it.isNaN()) throw IllegalArgumentException(\"Summing
infinities of different signs\") }\", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\npackage kotlinx.dom\n\nimport org.w3c.dom.*\nimport
kotlin.contracts.*\n\n/**\n * Creates a new element with the specified [name].\n */\n
* The element is initialized with the specified [init] function.\n */\n@SinceKotlin(\"1.4\")\npublic fun
Document.createElement(name: String, init: Element.() -> Unit): Element {\n    contract { callsInPlace(init,
InvocationKind.EXACTLY_ONCE) }\n    return createElement(name).apply(init)\n}\n\n/**\n * Appends a newly
created element with the specified [name] to this element.\n */\n * The element is initialized with the specified [init]
function.\n */\n@SinceKotlin(\"1.4\")\npublic fun Element.appendChild(name: String, init: Element.() -> Unit):
Element {\n    contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }\n    return
ownerDocument!!.createElement(name, init).also { appendChild(it) }\n}\n\n\", /*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlinx.dom\n\nimport
org.w3c.dom.*\n\n/**\n * Returns true if the
element has the given CSS class style in its 'class' attribute\n */\n@SinceKotlin(\"1.4\")\nfun
Element.hasClass(cssClass: String): Boolean =
className.matches(\"\\\"\\\"(\\.\\*\\|s+)$cssClass(\\.\\*\\|s+\\.\\*\\|\\\"\\\".toRegex())\n\n/**\n * Adds CSS class to element. Has no
effect if all specified classes are already in class attribute of the element\n */\n * @return true if at least one class has
been added\n */\n@SinceKotlin(\"1.4\")\nfun Element.addClass(vararg cssClasses: String): Boolean {\n    val
missingClasses = cssClasses.filterNot { hasClass(it) }\n    if (missingClasses.isNotEmpty()) {\n        val
presentClasses = className.trim()\n        className = buildString {\n            append(presentClasses)\n            if
(!presentClasses.isEmpty()) {\n                append(\" \")\n            }\n            missingClasses.joinTo(this, \" \")\n
}\n        return true\n    }\n    return false\n}\n\n/**\n * Removes all [cssClasses] from element. Has no effect if all
specified classes are
missing in class attribute of the element\n */\n * @return true if at least one class has been removed\n
*/\n@SinceKotlin(\"1.4\")\nfun Element.removeClass(vararg cssClasses: String): Boolean {\n    if (cssClasses.any {
hasClass(it) }) {\n        val toBeRemoved = cssClasses.toSet()\n        className =
className.trim().split(\"\\\"\\\"s+\".toRegex()).filter { it !in toBeRemoved }.joinToString(\" \")\n        return true\n
}\n    return false\n}\n\n\", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage
kotlin.text\n\n/**\n * Converts the string into a regular expression [Regex] with the default options.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(): Regex = Regex(this)\n\n/**\n * Converts the
string into a regular expression

```

```

[Regex] with the specified single [option].\n */\n@kotlin.internal.InlineOnly\npublic inline fun
String.toRegex(option: RegexOption): Regex = Regex(this, option)\n\n/**\n * Converts the string into a regular
expression [Regex] with the specified set of [options].\n */\n@kotlin.internal.InlineOnly\npublic inline fun
String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)\n\n/**\n * Returns a named group with
the specified [name].\n */\n * @return An instance of [MatchGroup] if the group with the specified [name] was
matched or `null` otherwise.\n * @throws IllegalArgumentException if there is no group with the specified [name]
defined in the regex pattern.\n * @throws UnsupportedOperationException if this match group collection doesn't
support getting match groups by name.\n * for example, when it's not supported by the current platform.\n
*/\n@SinceKotlin("1.9")\npublic expect operator fun MatchGroupCollection.get(name: String):
MatchGroup?"/\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.xml\nimport
org.w3c.dom.*\n\n/**\n * Gets a value indicating whether this node is a TEXT_NODE or a
CDATA_SECTION_NODE.\n */\n@SinceKotlin("1.4")\npublic val Node.isText: Boolean\n    get() = nodeType
== Node.TEXT_NODE || nodeType == Node.CDATA_SECTION_NODE\n\n/**\n * Gets a value indicating
whether this node is an [Element].\n */\n@SinceKotlin("1.4")\npublic val Node.isElement: Boolean\n    get() =
nodeType == Node.ELEMENT_NODE"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.xml\nimport org.w3c.dom.*\n\n/**\n * Removes all the children
from this node.\n */\n@SinceKotlin("1.4")\npublic fun Node.clear()
{\n    while (hasChildNodes()) {\n        removeChild(firstChild!)\n    }\n}\n\n/**\n * Creates text node and append
it to the element.\n */\n * @return this element\n */\n@SinceKotlin("1.4")\nfun Element.appendText(text: String):
Element {\n    appendChild(ownerDocument!!.createTextNode(text))\n    return this\n}\n"/\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
org.w3c.dom.events\n\npublic fun EventListener(handler: (Event) -> Unit): EventListener =
EventListenerHandler(handler)\n\nprivate class EventListenerHandler(private val handler: (Event) -> Unit) :
EventListener {\n    public override fun handleEvent(event: Event) {\n        handler(event)\n    }\n\n    public
override fun toString(): String = "EventListenerHandler($handler)"\n}\n"/\n * Copyright 2010-2022 JetBrains
s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom\n\n@Deprecated("Use
UnionMessagePortOrWindowProxy instead.", ReplaceWith("UnionMessagePortOrWindowProxy"))\ntypealias
UnionMessagePortOrWindow = UnionMessagePortOrWindowProxy\n\n@Deprecated("Use `as` instead.",
ReplaceWith("`as`"))\nvar HTMLLinkElement.as_ get() = `as`\n    set(value) {\n        `as` = value\n    }\n\n@Deprecated("Use `is` instead.", ReplaceWith("`is`"))\nvar ElementCreationOptions.is_ get() = `is`\n
set(value) {\n        `is` = value\n    }"/\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See
github.com/kotlin/dukat for details\n\npackage org.khronos.webgl\n\nimport
kotlin.js.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface
WebGLContextAttributes {\n    var alpha: Boolean? /* = true */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var depth: Boolean? /* = true */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var stencil: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var antialias: Boolean? /* = true */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var premultipliedAlpha: Boolean? /* = true */\n        get() = definedExternally\n
set(value) = definedExternally\n    var preserveDrawingBuffer: Boolean? /* = false */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var preferLowPowerToHighPerformance: Boolean? /* =

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false *^/n    get() = definedExternally/n    set(value) = definedExternally/n    var
    failIfMajorPerformanceCaveat: Boolean? /* = false */^/n    get() = definedExternally/n    set(value) =
definedExternally/n/n/n@Suppress("\INVISIBLE_REFERENCE"),
"\INVISIBLE_MEMBER")/n@kotlin.internal.InlineOnly/npublic inline fun WebGLContextAttributes(alpha:
Boolean? = true, depth: Boolean? = true, stencil: Boolean? = false, antialias: Boolean? = true, premultipliedAlpha:
Boolean? = true, preserveDrawingBuffer: Boolean? = false, preferLowPowerToHighPerformance: Boolean? = false,
failIfMajorPerformanceCaveat: Boolean? = false): WebGLContextAttributes {/n    val o = js("\{\}\")/n
o["alpha"] = alpha/n    o["depth"] = depth/n    o["stencil"] = stencil/n    o["antialias"] = antialias/n
o["premultipliedAlpha"] = premultipliedAlpha/n    o["preserveDrawingBuffer"] = preserveDrawingBuffer/n
o["preferLowPowerToHighPerformance"] = preferLowPowerToHighPerformance/n
o["failIfMajorPerformanceCaveat"] = failIfMajorPerformanceCaveat/n    return o/n/n/npublic external
    abstract class WebGLObject/n/n/**/n * Exposes the JavaScript
[WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin/n */^/npublic external
    abstract class WebGLBuffer : WebGLObject/n/n/**/n * Exposes the JavaScript
[WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin/n */^/npublic
external abstract class WebGLFramebuffer : WebGLObject/n/n/**/n * Exposes the JavaScript
[WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin/n */^/npublic external
    abstract class WebGLProgram : WebGLObject/n/n/**/n * Exposes the JavaScript
[WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin/n */^/npublic
external abstract class WebGLRenderbuffer : WebGLObject/n/n/**/n * Exposes the JavaScript
[WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin/n */^/npublic external
    abstract class WebGLShader : WebGLObject/n/n/**/n * Exposes the JavaScript
    [WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin/n */^/npublic external
    abstract class WebGLTexture : WebGLObject/n/n/**/n * Exposes the JavaScript
[WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin/n
*/^/npublic external abstract class WebGLUniformLocation/n/n/**/n * Exposes the JavaScript
[WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin/n */^/npublic
external abstract class WebGLActiveInfo {/n    open val size: Int/n    open val type: Int/n    open val name:
String/n/n/n/**/n * Exposes the JavaScript
[WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to
Kotlin/n */^/npublic external abstract class WebGLShaderPrecisionFormat {/n    open val rangeMin: Int/n    open val
rangeMax: Int/n    open val precision:
Int/n/n/n@Suppress("\NESTED_CLASS_IN_EXTERNAL_INTERFACE")/npublic external interface
WebGLRenderingContextBase
    {/n    val canvas: HTMLCanvasElement/n    val drawingBufferWidth: Int/n    val drawingBufferHeight: Int/n    fun
getContextAttributes(): WebGLContextAttributes?/n    fun isContextLost(): Boolean/n    fun
getSupportedExtensions(): Array<String>?/n    fun getExtension(name: String): dynamic/n    fun
activeTexture(texture: Int)/n    fun attachShader(program: WebGLProgram?, shader: WebGLShader?)/n    fun
bindAttribLocation(program: WebGLProgram?, index: Int, name: String)/n    fun bindBuffer(target: Int, buffer:
WebGLBuffer?)/n    fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)/n    fun
bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)/n    fun bindTexture(target: Int, texture:
WebGLTexture?)/n    fun blendColor(red: Float, green: Float, blue: Float, alpha: Float)/n    fun
blendEquation(mode: Int)/n    fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int)/n    fun
blendFunc(sfactor: Int, dfactor: Int)/n    fun blendFuncSeparate(srcRGB: Int, dstRGB:
Int, srcAlpha: Int, dstAlpha: Int)/n    fun bufferData(target: Int, size: Int, usage: Int)/n    fun bufferData(target: Int,
data: BufferDataSource?, usage: Int)/n    fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?)/n    fun
checkFramebufferStatus(target: Int): Int/n    fun clear(mask: Int)/n    fun clearColor(red: Float, green: Float, blue:
Float, alpha: Float)/n    fun clearDepth(depth: Float)/n    fun clearStencil(s: Int)/n    fun colorMask(red: Boolean,

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green: Boolean, blue: Boolean, alpha: Boolean)\n fun compileShader(shader: WebGLShader?)\n fun
compressedTexImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, data:
ArrayBufferView)\n fun compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int,
height: Int, format: Int, data: ArrayBufferView)\n fun copyTexImage2D(target: Int, level: Int, internalformat: Int,
x: Int, y: Int, width: Int, height: Int, border: Int)\n fun copyTexSubImage2D(target:
Int, level: Int, xoffset: Int, yoffset: Int, x: Int, y: Int, width: Int, height: Int)\n fun createBuffer(): WebGLBuffer?\n
fun createFramebuffer(): WebGLFramebuffer?\n fun createProgram(): WebGLProgram?\n fun
createRenderbuffer(): WebGLRenderbuffer?\n fun createShader(type: Int): WebGLShader?\n fun
createTexture(): WebGLTexture?\n fun cullFace(mode: Int)\n fun deleteBuffer(buffer: WebGLBuffer?)\n fun
deleteFramebuffer(framebuffer: WebGLFramebuffer?)\n fun deleteProgram(program: WebGLProgram?)\n fun
deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?)\n fun deleteShader(shader: WebGLShader?)\n fun
deleteTexture(texture: WebGLTexture?)\n fun depthFunc(func: Int)\n fun depthMask(flag: Boolean)\n fun
depthRange(zNear: Float, zFar: Float)\n fun detachShader(program: WebGLProgram?, shader: WebGLShader?)\n
fun disable(cap: Int)\n fun disableVertexAttribArray(index: Int)\n fun drawArrays(mode: Int, first: Int, count:
Int)\n fun drawElements(mode: Int, count: Int, type: Int, offset: Int)\n fun enable(cap: Int)\n fun
enableVertexAttribArray(index: Int)\n fun finish()\n fun flush()\n fun framebufferRenderbuffer(target: Int,
attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?)\n fun framebufferTexture2D(target:
Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int)\n fun frontFace(mode: Int)\n fun
generateMipmap(target: Int)\n fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n
fun getActiveUniform(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n fun
getAttachedShaders(program: WebGLProgram?): Array<WebGLShader>?\n fun getAttribLocation(program:
WebGLProgram?, name: String): Int\n fun getBufferParameter(target: Int, pname: Int): Any?\n fun
getParameter(pname: Int): Any?\n fun getError(): Int\n fun getFramebufferAttachmentParameter(target: Int,
attachment: Int, pname: Int): Any?\n
fun getProgramParameter(program: WebGLProgram?, pname: Int): Any?\n fun getProgramInfoLog(program:
WebGLProgram?): String?\n fun getRenderbufferParameter(target: Int, pname: Int): Any?\n fun
getShaderParameter(shader: WebGLShader?, pname: Int): Any?\n fun getShaderPrecisionFormat(shader: Int,
precisiontype: Int): WebGLShaderPrecisionFormat?\n fun getShaderInfoLog(shader: WebGLShader?): String?\n
fun getShaderSource(shader: WebGLShader?): String?\n fun getTexParameter(target: Int, pname: Int): Any?\n
fun getUniform(program: WebGLProgram?, location: WebGLUniformLocation?): Any?\n fun
getUniformLocation(program: WebGLProgram?, name: String): WebGLUniformLocation?\n fun
getVertexAttrib(index: Int, pname: Int): Any?\n fun getVertexAttribOffset(index: Int, pname: Int): Int\n fun
hint(target: Int, mode: Int)\n fun isBuffer(buffer: WebGLBuffer?): Boolean\n fun isEnabled(cap: Int): Boolean\n
fun isFramebuffer(framebuffer: WebGLFramebuffer?):
Boolean\n fun isProgram(program: WebGLProgram?): Boolean\n fun isRenderbuffer(renderbuffer:
WebGLRenderbuffer?): Boolean\n fun isShader(shader: WebGLShader?): Boolean\n fun isTexture(texture:
WebGLTexture?): Boolean\n fun lineWidth(width: Float)\n fun linkProgram(program: WebGLProgram?)\n
fun pixelStorei(pname: Int, param: Int)\n fun polygonOffset(factor: Float, units: Float)\n fun readPixels(x: Int, y:
Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun renderbufferStorage(target: Int,
internalformat: Int, width: Int, height: Int)\n fun sampleCoverage(value: Float, invert: Boolean)\n fun scissor(x:
Int, y: Int, width: Int, height: Int)\n fun shaderSource(shader: WebGLShader?, source: String)\n fun
stencilFunc(func: Int, ref: Int, mask: Int)\n fun stencilFuncSeparate(face: Int, func: Int, ref: Int, mask: Int)\n fun
stencilMask(mask: Int)\n fun stencilMaskSeparate(face: Int, mask: Int)\n fun stencilOp(fail:
Int, zfail: Int, zpass: Int)\n fun stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int)\n fun
texImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels:
ArrayBufferView?)\n fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, source:
TexImageSource?)\n fun texParameterf(target: Int, pname: Int, param: Float)\n fun texParameteri(target: Int,
pname: Int, param: Int)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int,

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format: Int, type: Int, pixels: ArrayBufferView?)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset:
Int, format: Int, type: Int, source: TexImageSource?)\n fun uniform1f(location: WebGLUniformLocation?, x:
Float)\n fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform1fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform1i(location:
WebGLUniformLocation?, x: Int)\n fun uniform1iv(location: WebGLUniformLocation?, v: Int32Array)\n fun
uniform1iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun uniform2f(location:
WebGLUniformLocation?, x: Float, y: Float)\n fun uniform2fv(location: WebGLUniformLocation?, v:
Float32Array)\n fun uniform2fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun
uniform2i(location: WebGLUniformLocation?, x: Int, y: Int)\n fun uniform2iv(location:
WebGLUniformLocation?, v: Int32Array)\n fun uniform2iv(location: WebGLUniformLocation?, v: Array<Int>)\n
fun uniform3f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float)\n fun uniform3fv(location:
WebGLUniformLocation?, v: Float32Array)\n fun uniform3fv(location: WebGLUniformLocation?, v:
Array<Float>)\n fun uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int)\n fun
uniform3iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform3iv(location:
WebGLUniformLocation?,
v: Array<Int>)\n fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float, w: Float)\n fun
uniform4fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform4fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform4i(location: WebGLUniformLocation?, x: Int, y: Int, z:
Int, w: Int)\n fun uniform4iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform4iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniformMatrix2fv(location: WebGLUniformLocation?,
transpose: Boolean, value: Float32Array)\n fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose:
Boolean, value: Array<Float>)\n fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean,
value: Float32Array)\n fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value:
Array<Float>)\n fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value:
Float32Array)\n fun uniformMatrix4fv(location:
WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun useProgram(program:
WebGLProgram?)\n fun validateProgram(program: WebGLProgram?)\n fun vertexAttrib1f(index: Int, x:
Float)\n fun vertexAttrib1fv(index: Int, values: dynamic)\n fun vertexAttrib2f(index: Int, x: Float, y: Float)\n
fun vertexAttrib2fv(index: Int, values: dynamic)\n fun vertexAttrib3f(index: Int, x: Float, y: Float, z: Float)\n fun
vertexAttrib3fv(index: Int, values: dynamic)\n fun vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float)\n
fun vertexAttrib4fv(index: Int, values: dynamic)\n fun vertexAttribPointer(index: Int, size: Int, type: Int,
normalized: Boolean, stride: Int, offset: Int)\n fun viewport(x: Int, y: Int, width: Int, height: Int)\n\n companion
object {\n val DEPTH_BUFFER_BIT: Int\n val STENCIL_BUFFER_BIT: Int\n val
COLOR_BUFFER_BIT: Int\n val POINTS: Int\n val LINES: Int\n val LINE_LOOP:
Int\n val LINE_STRIP: Int\n val TRIANGLES: Int\n val TRIANGLE_STRIP: Int\n val
TRIANGLE_FAN: Int\n val ZERO: Int\n val ONE: Int\n val SRC_COLOR: Int\n val
ONE_MINUS_SRC_COLOR: Int\n val SRC_ALPHA: Int\n val ONE_MINUS_SRC_ALPHA: Int\n
val DST_ALPHA: Int\n val ONE_MINUS_DST_ALPHA: Int\n val DST_COLOR: Int\n val
ONE_MINUS_DST_COLOR: Int\n val SRC_ALPHA_SATURATE: Int\n val FUNC_ADD: Int\n val
BLEND_EQUATION: Int\n val BLEND_EQUATION_RGB: Int\n val BLEND_EQUATION_ALPHA:
Int\n val FUNC_SUBTRACT: Int\n val FUNC_REVERSE_SUBTRACT: Int\n val
BLEND_DST_RGB: Int\n val BLEND_SRC_RGB: Int\n val BLEND_DST_ALPHA: Int\n val
BLEND_SRC_ALPHA: Int\n val CONSTANT_COLOR: Int\n val ONE_MINUS_CONSTANT_COLOR:
Int\n val CONSTANT_ALPHA: Int\n val ONE_MINUS_CONSTANT_ALPHA: Int\n val
BLEND_COLOR: Int\n
val ARRAY_BUFFER: Int\n val ELEMENT_ARRAY_BUFFER: Int\n val
ARRAY_BUFFER_BINDING: Int\n val ELEMENT_ARRAY_BUFFER_BINDING: Int\n val
STREAM_DRAW: Int\n val STATIC_DRAW: Int\n val DYNAMIC_DRAW: Int\n val

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BUFFER\_SIZE: Int\n val BUFFER\_USAGE: Int\n val CURRENT\_VERTEX\_ATTRIB: Int\n val  
 FRONT: Int\n val BACK: Int\n val FRONT\_AND\_BACK: Int\n val CULL\_FACE: Int\n val  
 BLEND: Int\n val DITHER: Int\n val STENCIL\_TEST: Int\n val DEPTH\_TEST: Int\n val  
 SCISSOR\_TEST: Int\n val POLYGON\_OFFSET\_FILL: Int\n val SAMPLE\_ALPHA\_TO\_COVERAGE:  
 Int\n val SAMPLE\_COVERAGE: Int\n val NO\_ERROR: Int\n val INVALID\_ENUM: Int\n val  
 INVALID\_VALUE: Int\n val INVALID\_OPERATION: Int\n val OUT\_OF\_MEMORY: Int\n val CW:  
 Int\n val CCW: Int\n val LINE\_WIDTH: Int\n val ALIASED\_POINT\_SIZE\_RANGE: Int\n val  
 ALIASED\_LINE\_WIDTH\_RANGE:  
 Int\n val CULL\_FACE\_MODE: Int\n val FRONT\_FACE: Int\n val DEPTH\_RANGE: Int\n val  
 DEPTH\_WRITEMASK: Int\n val DEPTH\_CLEAR\_VALUE: Int\n val DEPTH\_FUNC: Int\n val  
 STENCIL\_CLEAR\_VALUE: Int\n val STENCIL\_FUNC: Int\n val STENCIL\_FAIL: Int\n val  
 STENCIL\_PASS\_DEPTH\_FAIL: Int\n val STENCIL\_PASS\_DEPTH\_PASS: Int\n val STENCIL\_REF:  
 Int\n val STENCIL\_VALUE\_MASK: Int\n val STENCIL\_WRITEMASK: Int\n val  
 STENCIL\_BACK\_FUNC: Int\n val STENCIL\_BACK\_FAIL: Int\n val  
 STENCIL\_BACK\_PASS\_DEPTH\_FAIL: Int\n val STENCIL\_BACK\_PASS\_DEPTH\_PASS: Int\n val  
 STENCIL\_BACK\_REF: Int\n val STENCIL\_BACK\_VALUE\_MASK: Int\n val  
 STENCIL\_BACK\_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR\_BOX: Int\n val  
 COLOR\_CLEAR\_VALUE: Int\n val COLOR\_WRITEMASK: Int\n val UNPACK\_ALIGNMENT: Int\n  
 val PACK\_ALIGNMENT: Int\n val MAX\_TEXTURE\_SIZE:  
 Int\n val MAX\_VIEWPORT\_DIMS: Int\n val SUBPIXEL\_BITS: Int\n val RED\_BITS: Int\n val  
 GREEN\_BITS: Int\n val BLUE\_BITS: Int\n val ALPHA\_BITS: Int\n val DEPTH\_BITS: Int\n val  
 STENCIL\_BITS: Int\n val POLYGON\_OFFSET\_UNITS: Int\n val POLYGON\_OFFSET\_FACTOR: Int\n  
 val TEXTURE\_BINDING\_2D: Int\n val SAMPLE\_BUFFERS: Int\n val SAMPLES: Int\n val  
 SAMPLE\_COVERAGE\_VALUE: Int\n val SAMPLE\_COVERAGE\_INVERT: Int\n val  
 COMPRESSED\_TEXTURE\_FORMATS: Int\n val DONT\_CARE: Int\n val FASTEST: Int\n val  
 NICEST: Int\n val GENERATE\_MIPMAP\_HINT: Int\n val BYTE: Int\n val UNSIGNED\_BYTE:  
 Int\n val SHORT: Int\n val UNSIGNED\_SHORT: Int\n val INT: Int\n val UNSIGNED\_INT: Int\n  
 val FLOAT: Int\n val DEPTH\_COMPONENT: Int\n val ALPHA: Int\n val RGB: Int\n val  
 RGBA: Int\n val LUMINANCE: Int\n  
 val LUMINANCE\_ALPHA: Int\n val UNSIGNED\_SHORT\_4\_4\_4\_4: Int\n val  
 UNSIGNED\_SHORT\_5\_5\_5\_1: Int\n val UNSIGNED\_SHORT\_5\_6\_5: Int\n val  
 FRAGMENT\_SHADER: Int\n val VERTEX\_SHADER: Int\n val MAX\_VERTEX\_ATTRIBS: Int\n  
 val MAX\_VERTEX\_UNIFORM\_VECTORS: Int\n val MAX\_VARYING\_VECTORS: Int\n val  
 MAX\_COMBINED\_TEXTURE\_IMAGE\_UNITS: Int\n val MAX\_VERTEX\_TEXTURE\_IMAGE\_UNITS:  
 Int\n val MAX\_TEXTURE\_IMAGE\_UNITS: Int\n val MAX\_FRAGMENT\_UNIFORM\_VECTORS: Int\n  
 val SHADER\_TYPE: Int\n val DELETE\_STATUS: Int\n val LINK\_STATUS: Int\n val  
 VALIDATE\_STATUS: Int\n val ATTACHED\_SHADERS: Int\n val ACTIVE\_UNIFORMS: Int\n val  
 ACTIVE\_ATTRIBUTES: Int\n val SHADING\_LANGUAGE\_VERSION: Int\n val  
 CURRENT\_PROGRAM: Int\n val NEVER: Int\n val LESS: Int\n val EQUAL: Int\n val  
 LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n val GEQUAL:  
 Int\n val ALWAYS: Int\n val KEEP: Int\n val REPLACE: Int\n val INCR: Int\n val DECR:  
 Int\n val INVERT: Int\n val INCR\_WRAP: Int\n val DECR\_WRAP: Int\n val VENDOR: Int\n  
 val RENDERER: Int\n val VERSION: Int\n val NEAREST: Int\n val LINEAR: Int\n val  
 NEAREST\_MIPMAP\_NEAREST: Int\n val LINEAR\_MIPMAP\_NEAREST: Int\n val  
 NEAREST\_MIPMAP\_LINEAR: Int\n val LINEAR\_MIPMAP\_LINEAR: Int\n val  
 TEXTURE\_MAG\_FILTER: Int\n val TEXTURE\_MIN\_FILTER: Int\n val TEXTURE\_WRAP\_S: Int\n  
 val TEXTURE\_WRAP\_T: Int\n val TEXTURE\_2D: Int\n val TEXTURE: Int\n val  
 TEXTURE\_CUBE\_MAP: Int\n val TEXTURE\_BINDING\_CUBE\_MAP: Int\n val



TEXTURE\_CUBE\_MAP\_POSITIVE\_X: Int\n     val TEXTURE\_CUBE\_MAP\_NEGATIVE\_X: Int\n     val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Y: Int\n     val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Y: Int\n     val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Z: Int\n  
     val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Z: Int\n     val MAX\_CUBE\_MAP\_TEXTURE\_SIZE: Int\n  
 val TEXTURE0: Int\n     val TEXTURE1: Int\n     val TEXTURE2: Int\n     val TEXTURE3: Int\n     val  
 TEXTURE4: Int\n     val TEXTURE5: Int\n     val TEXTURE6: Int\n     val TEXTURE7: Int\n     val  
 TEXTURE8: Int\n     val TEXTURE9: Int\n     val TEXTURE10: Int\n     val TEXTURE11: Int\n     val  
 TEXTURE12: Int\n     val TEXTURE13: Int\n     val TEXTURE14: Int\n     val TEXTURE15: Int\n     val  
 TEXTURE16: Int\n     val TEXTURE17: Int\n     val TEXTURE18: Int\n     val TEXTURE19: Int\n     val  
 TEXTURE20: Int\n     val TEXTURE21: Int\n     val TEXTURE22: Int\n     val TEXTURE23: Int\n     val  
 TEXTURE24: Int\n     val TEXTURE25: Int\n     val TEXTURE26: Int\n     val TEXTURE27: Int\n     val  
 TEXTURE28: Int\n     val TEXTURE29: Int\n     val TEXTURE30: Int\n     val TEXTURE31: Int\n     val  
 ACTIVE\_TEXTURE:  
 Int\n     val REPEAT: Int\n     val CLAMP\_TO\_EDGE: Int\n     val MIRRORED\_REPEAT: Int\n     val  
 FLOAT\_VEC2: Int\n     val FLOAT\_VEC3: Int\n     val FLOAT\_VEC4: Int\n     val INT\_VEC2: Int\n     val  
 INT\_VEC3: Int\n     val INT\_VEC4: Int\n     val BOOL: Int\n     val BOOL\_VEC2: Int\n     val  
 BOOL\_VEC3: Int\n     val BOOL\_VEC4: Int\n     val FLOAT\_MAT2: Int\n     val FLOAT\_MAT3: Int\n  
 val FLOAT\_MAT4: Int\n     val SAMPLER\_2D: Int\n     val SAMPLER\_CUBE: Int\n     val  
 VERTEX\_ATTRIB\_ARRAY\_ENABLED: Int\n     val VERTEX\_ATTRIB\_ARRAY\_SIZE: Int\n     val  
 VERTEX\_ATTRIB\_ARRAY\_STRIDE: Int\n     val VERTEX\_ATTRIB\_ARRAY\_TYPE: Int\n     val  
 VERTEX\_ATTRIB\_ARRAY\_NORMALIZED: Int\n     val VERTEX\_ATTRIB\_ARRAY\_POINTER: Int\n  
 val VERTEX\_ATTRIB\_ARRAY\_BUFFER\_BINDING: Int\n     val  
 IMPLEMENTATION\_COLOR\_READ\_TYPE: Int\n     val IMPLEMENTATION\_COLOR\_READ\_FORMAT:  
 Int\n     val COMPILE\_STATUS: Int\n     val LOW\_FLOAT:  
 Int\n     val MEDIUM\_FLOAT: Int\n     val HIGH\_FLOAT: Int\n     val LOW\_INT: Int\n     val  
 MEDIUM\_INT: Int\n     val HIGH\_INT: Int\n     val FRAMEBUFFER: Int\n     val RENDERBUFFER: Int\n  
     val RGBA4: Int\n     val RGB5\_A1: Int\n     val RGB565: Int\n     val DEPTH\_COMPONENT16: Int\n  
 val STENCIL\_INDEX: Int\n     val STENCIL\_INDEX8: Int\n     val DEPTH\_STENCIL: Int\n     val  
 RENDERBUFFER\_WIDTH: Int\n     val RENDERBUFFER\_HEIGHT: Int\n     val  
 RENDERBUFFER\_INTERNAL\_FORMAT: Int\n     val RENDERBUFFER\_RED\_SIZE: Int\n     val  
 RENDERBUFFER\_GREEN\_SIZE: Int\n     val RENDERBUFFER\_BLUE\_SIZE: Int\n     val  
 RENDERBUFFER\_ALPHA\_SIZE: Int\n     val RENDERBUFFER\_DEPTH\_SIZE: Int\n     val  
 RENDERBUFFER\_STENCIL\_SIZE: Int\n     val FRAMEBUFFER\_ATTACHMENT\_OBJECT\_TYPE: Int\n  
 val FRAMEBUFFER\_ATTACHMENT\_OBJECT\_NAME: Int\n     val  
 FRAMEBUFFER\_ATTACHMENT\_TEXTURE\_LEVEL: Int\n     val  
 FRAMEBUFFER\_ATTACHMENT\_TEXTURE\_CUBE\_MAP\_FACE:  
 Int\n     val COLOR\_ATTACHMENT0: Int\n     val DEPTH\_ATTACHMENT: Int\n     val  
 STENCIL\_ATTACHMENT: Int\n     val DEPTH\_STENCIL\_ATTACHMENT: Int\n     val NONE: Int\n  
 val FRAMEBUFFER\_COMPLETE: Int\n     val FRAMEBUFFER\_INCOMPLETE\_ATTACHMENT: Int\n  
 val FRAMEBUFFER\_INCOMPLETE\_MISSING\_ATTACHMENT: Int\n     val  
 FRAMEBUFFER\_INCOMPLETE\_DIMENSIONS: Int\n     val FRAMEBUFFER\_UNSUPPORTED: Int\n  
 val FRAMEBUFFER\_BINDING: Int\n     val RENDERBUFFER\_BINDING: Int\n     val  
 MAX\_RENDERBUFFER\_SIZE: Int\n     val INVALID\_FRAMEBUFFER\_OPERATION: Int\n     val  
 UNPACK\_FLIP\_Y\_WEBGL: Int\n     val UNPACK\_PREMULTIPLY\_ALPHA\_WEBGL: Int\n     val  
 CONTEXT\_LOST\_WEBGL: Int\n     val UNPACK\_COLORSPACE\_CONVERSION\_WEBGL: Int\n     val  
 BROWSER\_DEFAULT\_WEBGL: Int\n     })\n}\n\n\*\*\n \* Exposes the JavaScript  
 [WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin\n
 \*/\npublic external abstract class

WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {\n companion object {\n val  
 DEPTH\_BUFFER\_BIT: Int\n val STENCIL\_BUFFER\_BIT: Int\n val COLOR\_BUFFER\_BIT: Int\n  
 val POINTS: Int\n val LINES: Int\n val LINE\_LOOP: Int\n val LINE\_STRIP: Int\n val  
 TRIANGLES: Int\n val TRIANGLE\_STRIP: Int\n val TRIANGLE\_FAN: Int\n val ZERO: Int\n  
 val ONE: Int\n val SRC\_COLOR: Int\n val ONE\_MINUS\_SRC\_COLOR: Int\n val SRC\_ALPHA:  
 Int\n val ONE\_MINUS\_SRC\_ALPHA: Int\n val DST\_ALPHA: Int\n val  
 ONE\_MINUS\_DST\_ALPHA: Int\n val DST\_COLOR: Int\n val ONE\_MINUS\_DST\_COLOR: Int\n  
 val SRC\_ALPHA\_SATURATE: Int\n val FUNC\_ADD: Int\n val BLEND\_EQUATION: Int\n val  
 BLEND\_EQUATION\_RGB: Int\n val BLEND\_EQUATION\_ALPHA: Int\n val FUNC\_SUBTRACT:  
 Int\n val FUNC\_REVERSE\_SUBTRACT: Int\n val BLEND\_DST\_RGB: Int\n val  
 BLEND\_SRC\_RGB: Int\n val BLEND\_DST\_ALPHA: Int\n val BLEND\_SRC\_ALPHA: Int\n val  
 CONSTANT\_COLOR: Int\n val ONE\_MINUS\_CONSTANT\_COLOR: Int\n val CONSTANT\_ALPHA:  
 Int\n val ONE\_MINUS\_CONSTANT\_ALPHA: Int\n val BLEND\_COLOR: Int\n val  
 ARRAY\_BUFFER: Int\n val ELEMENT\_ARRAY\_BUFFER: Int\n val ARRAY\_BUFFER\_BINDING:  
 Int\n val ELEMENT\_ARRAY\_BUFFER\_BINDING: Int\n val STREAM\_DRAW: Int\n val  
 STATIC\_DRAW: Int\n val DYNAMIC\_DRAW: Int\n val BUFFER\_SIZE: Int\n val  
 BUFFER\_USAGE: Int\n val CURRENT\_VERTEX\_ATTRIB: Int\n val FRONT: Int\n val BACK:  
 Int\n val FRONT\_AND\_BACK: Int\n val CULL\_FACE: Int\n val BLEND: Int\n val DITHER:  
 Int\n val STENCIL\_TEST: Int\n val DEPTH\_TEST: Int\n val SCISSOR\_TEST: Int\n val  
 POLYGON\_OFFSET\_FILL: Int\n val SAMPLE\_ALPHA\_TO\_COVERAGE: Int\n val  
 SAMPLE\_COVERAGE: Int\n val NO\_ERROR:  
 Int\n val INVALID\_ENUM: Int\n val INVALID\_VALUE: Int\n val INVALID\_OPERATION: Int\n  
 val OUT\_OF\_MEMORY: Int\n val CW: Int\n val CCW: Int\n val LINE\_WIDTH: Int\n val  
 ALIASED\_POINT\_SIZE\_RANGE: Int\n val ALIASED\_LINE\_WIDTH\_RANGE: Int\n val  
 CULL\_FACE\_MODE: Int\n val FRONT\_FACE: Int\n val DEPTH\_RANGE: Int\n val  
 DEPTH\_WRITEMASK: Int\n val DEPTH\_CLEAR\_VALUE: Int\n val DEPTH\_FUNC: Int\n val  
 STENCIL\_CLEAR\_VALUE: Int\n val STENCIL\_FUNC: Int\n val STENCIL\_FAIL: Int\n val  
 STENCIL\_PASS\_DEPTH\_FAIL: Int\n val STENCIL\_PASS\_DEPTH\_PASS: Int\n val STENCIL\_REF:  
 Int\n val STENCIL\_VALUE\_MASK: Int\n val STENCIL\_WRITEMASK: Int\n val  
 STENCIL\_BACK\_FUNC: Int\n val STENCIL\_BACK\_FAIL: Int\n val  
 STENCIL\_BACK\_PASS\_DEPTH\_FAIL: Int\n val STENCIL\_BACK\_PASS\_DEPTH\_PASS: Int\n val  
 STENCIL\_BACK\_REF: Int\n val STENCIL\_BACK\_VALUE\_MASK:  
 Int\n val STENCIL\_BACK\_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR\_BOX: Int\n  
 val COLOR\_CLEAR\_VALUE: Int\n val COLOR\_WRITEMASK: Int\n val UNPACK\_ALIGNMENT:  
 Int\n val PACK\_ALIGNMENT: Int\n val MAX\_TEXTURE\_SIZE: Int\n val  
 MAX\_VIEWPORT\_DIMS: Int\n val SUBPIXEL\_BITS: Int\n val RED\_BITS: Int\n val  
 GREEN\_BITS: Int\n val BLUE\_BITS: Int\n val ALPHA\_BITS: Int\n val DEPTH\_BITS: Int\n val  
 STENCIL\_BITS: Int\n val POLYGON\_OFFSET\_UNITS: Int\n val POLYGON\_OFFSET\_FACTOR: Int\n  
 val TEXTURE\_BINDING\_2D: Int\n val SAMPLE\_BUFFERS: Int\n val SAMPLES: Int\n val  
 SAMPLE\_COVERAGE\_VALUE: Int\n val SAMPLE\_COVERAGE\_INVERT: Int\n val  
 COMPRESSED\_TEXTURE\_FORMATS: Int\n val DONT\_CARE: Int\n val FASTEST: Int\n val  
 NICEST: Int\n val GENERATE\_MIPMAP\_HINT: Int\n val BYTE: Int\n val UNSIGNED\_BYTE:  
 Int\n val SHORT: Int\n val UNSIGNED\_SHORT: Int\n val INT: Int\n val UNSIGNED\_INT:  
 Int\n val FLOAT: Int\n val DEPTH\_COMPONENT: Int\n val ALPHA: Int\n val RGB: Int\n  
 val RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE\_ALPHA: Int\n val  
 UNSIGNED\_SHORT\_4\_4\_4\_4: Int\n val UNSIGNED\_SHORT\_5\_5\_5\_1: Int\n val  
 UNSIGNED\_SHORT\_5\_6\_5: Int\n val FRAGMENT\_SHADER: Int\n val VERTEX\_SHADER: Int\n  
 val MAX\_VERTEX\_ATTRIBS: Int\n val MAX\_VERTEX\_UNIFORM\_VECTORS: Int\n val

MAX\_VARYING\_VECTORS: Int\n     val MAX\_COMBINED\_TEXTURE\_IMAGE\_UNITS: Int\n     val  
 MAX\_VERTEX\_TEXTURE\_IMAGE\_UNITS: Int\n     val MAX\_TEXTURE\_IMAGE\_UNITS: Int\n     val  
 MAX\_FRAGMENT\_UNIFORM\_VECTORS: Int\n     val SHADER\_TYPE: Int\n     val DELETE\_STATUS:  
 Int\n     val LINK\_STATUS: Int\n     val VALIDATE\_STATUS: Int\n     val ATTACHED\_SHADERS: Int\n  
    val ACTIVE\_UNIFORMS: Int\n  
    val ACTIVE\_ATTRIBUTES: Int\n     val SHADING\_LANGUAGE\_VERSION: Int\n     val  
 CURRENT\_PROGRAM: Int\n     val NEVER: Int\n     val LESS: Int\n     val EQUAL: Int\n     val  
 LEQUAL: Int\n     val GREATER: Int\n     val NOTEQUAL: Int\n     val GEQUAL: Int\n     val ALWAYS:  
 Int\n     val KEEP: Int\n     val REPLACE: Int\n     val INCR: Int\n     val DECR: Int\n     val INVERT:  
 Int\n     val INCR\_WRAP: Int\n     val DECR\_WRAP: Int\n     val VENDOR: Int\n     val RENDERER: Int\n  
    val VERSION: Int\n     val NEAREST: Int\n     val LINEAR: Int\n     val  
 NEAREST\_MIPMAP\_NEAREST: Int\n     val LINEAR\_MIPMAP\_NEAREST: Int\n     val  
 NEAREST\_MIPMAP\_LINEAR: Int\n     val LINEAR\_MIPMAP\_LINEAR: Int\n     val  
 TEXTURE\_MAG\_FILTER: Int\n     val TEXTURE\_MIN\_FILTER: Int\n     val TEXTURE\_WRAP\_S: Int\n  
    val TEXTURE\_WRAP\_T: Int\n     val TEXTURE\_2D: Int\n     val TEXTURE: Int\n     val  
 TEXTURE\_CUBE\_MAP: Int\n  
    val TEXTURE\_BINDING\_CUBE\_MAP: Int\n     val TEXTURE\_CUBE\_MAP\_POSITIVE\_X: Int\n     val  
 TEXTURE\_CUBE\_MAP\_NEGATIVE\_X: Int\n     val TEXTURE\_CUBE\_MAP\_POSITIVE\_Y: Int\n     val  
 TEXTURE\_CUBE\_MAP\_NEGATIVE\_Y: Int\n     val TEXTURE\_CUBE\_MAP\_POSITIVE\_Z: Int\n     val  
 TEXTURE\_CUBE\_MAP\_NEGATIVE\_Z: Int\n     val MAX\_CUBE\_MAP\_TEXTURE\_SIZE: Int\n     val  
 TEXTURE0: Int\n     val TEXTURE1: Int\n     val TEXTURE2: Int\n     val TEXTURE3: Int\n     val  
 TEXTURE4: Int\n     val TEXTURE5: Int\n     val TEXTURE6: Int\n     val TEXTURE7: Int\n     val  
 TEXTURE8: Int\n     val TEXTURE9: Int\n     val TEXTURE10: Int\n     val TEXTURE11: Int\n     val  
 TEXTURE12: Int\n     val TEXTURE13: Int\n     val TEXTURE14: Int\n     val TEXTURE15: Int\n     val  
 TEXTURE16: Int\n     val TEXTURE17: Int\n     val TEXTURE18: Int\n     val TEXTURE19: Int\n     val  
 TEXTURE20: Int\n     val TEXTURE21: Int\n     val TEXTURE22: Int\n  
    val TEXTURE23: Int\n     val TEXTURE24: Int\n     val TEXTURE25: Int\n     val TEXTURE26: Int\n  
    val TEXTURE27: Int\n     val TEXTURE28: Int\n     val TEXTURE29: Int\n     val TEXTURE30: Int\n  
 val TEXTURE31: Int\n     val ACTIVE\_TEXTURE: Int\n     val REPEAT: Int\n     val CLAMP\_TO\_EDGE:  
 Int\n     val MIRRORED\_REPEAT: Int\n     val FLOAT\_VEC2: Int\n     val FLOAT\_VEC3: Int\n     val  
 FLOAT\_VEC4: Int\n     val INT\_VEC2: Int\n     val INT\_VEC3: Int\n     val INT\_VEC4: Int\n     val BOOL:  
 Int\n     val BOOL\_VEC2: Int\n     val BOOL\_VEC3: Int\n     val BOOL\_VEC4: Int\n     val  
 FLOAT\_MAT2: Int\n     val FLOAT\_MAT3: Int\n     val FLOAT\_MAT4: Int\n     val SAMPLER\_2D: Int\n  
    val SAMPLER\_CUBE: Int\n     val VERTEX\_ATTRIB\_ARRAY\_ENABLED: Int\n     val  
 VERTEX\_ATTRIB\_ARRAY\_SIZE: Int\n     val VERTEX\_ATTRIB\_ARRAY\_STRIDE: Int\n     val  
 VERTEX\_ATTRIB\_ARRAY\_TYPE: Int\n     val VERTEX\_ATTRIB\_ARRAY\_NORMALIZED:  
 Int\n     val VERTEX\_ATTRIB\_ARRAY\_POINTER: Int\n     val  
 VERTEX\_ATTRIB\_ARRAY\_BUFFER\_BINDING: Int\n     val IMPLEMENTATION\_COLOR\_READ\_TYPE:  
 Int\n     val IMPLEMENTATION\_COLOR\_READ\_FORMAT: Int\n     val COMPILE\_STATUS: Int\n     val  
 LOW\_FLOAT: Int\n     val MEDIUM\_FLOAT: Int\n     val HIGH\_FLOAT: Int\n     val LOW\_INT: Int\n  
    val MEDIUM\_INT: Int\n     val HIGH\_INT: Int\n     val FRAMEBUFFER: Int\n     val RENDERBUFFER:  
 Int\n     val RGBA4: Int\n     val RGB5\_A1: Int\n     val RGB565: Int\n     val DEPTH\_COMPONENT16:  
 Int\n     val STENCIL\_INDEX: Int\n     val STENCIL\_INDEX8: Int\n     val DEPTH\_STENCIL: Int\n     val  
 RENDERBUFFER\_WIDTH: Int\n     val RENDERBUFFER\_HEIGHT: Int\n     val  
 RENDERBUFFER\_INTERNAL\_FORMAT: Int\n     val RENDERBUFFER\_RED\_SIZE: Int\n     val  
 RENDERBUFFER\_GREEN\_SIZE: Int\n     val RENDERBUFFER\_BLUE\_SIZE: Int\n     val  
 RENDERBUFFER\_ALPHA\_SIZE: Int\n     val RENDERBUFFER\_DEPTH\_SIZE:



```

UInt8Array)\n  constructor(array: Array<Byte>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int =
definedExternally, length: Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n
override val byteOffset: Int\n  override val byteLength: Int\n  fun set(array: UInt8Array, offset: Int =
definedExternally)\n  fun set(array: Array<Byte>, offset: Int = definedExternally)\n  fun subarray(start: Int, end:
Int): UInt8Array\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun UInt8Array.get(index: Int):
Byte = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic
inline operator fun UInt8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the
JavaScript [UInt8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/UInt8ClampedArray) to Kotlin\n
*/\npublic external open class UInt8ClampedArray : ArrayBufferView {\n  constructor(length: Int)\n
constructor(array: UInt8ClampedArray)\n  constructor(array: Array<Byte>)\n  constructor(buffer: ArrayBuffer,
byteOffset: Int = definedExternally, length: Int = definedExternally)\n  open val length: Int\n  override val buffer:
ArrayBuffer\n  override val byteOffset: Int\n  override val byteLength: Int\n  fun set(array: UInt8ClampedArray,
offset: Int = definedExternally)\n  fun set(array: Array<Byte>, offset: Int = definedExternally)\n  fun
subarray(start: Int, end: Int): UInt8ClampedArray\n\n  companion object {\n    val BYTES_PER_ELEMENT:
Int\n  }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic
inline operator fun UInt8ClampedArray.get(index: Int): Byte =
asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
UInt8ClampedArray.set(index: Int, value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin\n
*/\npublic external open class Int16Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Int16Array)\n
constructor(array: Array<Short>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Int16Array, offset: Int = definedExternally)\n  fun set(array:
Array<Short>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int):
Int16Array\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.get(index: Int):
Short = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.set(index: Int,
value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[UInt16Array](https://developer.mozilla.org/en/docs/Web/API/UInt16Array) to Kotlin\n
*/\npublic external open class UInt16Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: UInt16Array)\n
constructor(array: Array<Short>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: UInt16Array,
offset: Int = definedExternally)\n  fun set(array: Array<Short>, offset: Int = definedExternally)\n  fun
subarray(start: Int, end: Int): UInt16Array\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun UInt16Array.get(index: Int):
Short = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun UInt16Array.set(index: Int,
value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin\n
*/\npublic external open class

```

```

Int32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Int32Array)\n
constructor(array: Array<Int>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally)\n  open val length:
Int\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n  override val byteLength: Int\n  fun
set(array: Int32Array, offset: Int = definedExternally)\n  fun set(array: Array<Int>, offset: Int =
definedExternally)\n  fun subarray(start: Int, end: Int): Int32Array\n\n  companion object {\n    val
BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.get(index: Int): Int
= asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.set(index: Int,
value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin\n *\npublic external open
class Uint32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Uint32Array)\n
constructor(array: Array<Int>)\n
constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n  open val
length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n  override val byteLength: Int\n
fun set(array: Uint32Array, offset: Int = definedExternally)\n  fun set(array: Array<Int>, offset: Int =
definedExternally)\n  fun subarray(start: Int, end: Int): Uint32Array\n\n  companion object {\n    val
BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint32Array.get(index: Int):
Int = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint32Array.set(index: Int,
value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin\n *\npublic external
open class Float32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Float32Array)\n
constructor(array: Array<Float>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Float32Array, offset: Int = definedExternally)\n  fun
set(array: Array<Float>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int): Float32Array\n\n
companion object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.get(index: Int):
Float = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.set(index: Int,
value: Float) { asDynamic()[index]
= value }\n\n/**\n * Exposes the JavaScript
[Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin\n *\npublic external open
class Float64Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Float64Array)\n
constructor(array: Array<Double>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Float64Array, offset: Int = definedExternally)\n  fun
set(array: Array<Double>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int): Float64Array\n\n
companion object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.get(index: Int):
Double = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.set(index: Int,
value: Double) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript

```

```

[DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin\n *\npublic external open class
DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) :
ArrayBufferView {\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n  override val
byteLength: Int\n  fun getInt8(byteOffset: Int): Byte\n  fun getUint8(byteOffset: Int): Byte\n  fun
getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n  fun getUint16(byteOffset: Int,
littleEndian: Boolean = definedExternally): Short\n  fun getInt32(byteOffset: Int, littleEndian: Boolean =
definedExternally): Int\n  fun getUint32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\n  fun
getFloat32(byteOffset:
Int, littleEndian: Boolean = definedExternally): Float\n  fun getFloat64(byteOffset: Int, littleEndian: Boolean =
definedExternally): Double\n  fun setInt8(byteOffset: Int, value: Byte)\n  fun setUint8(byteOffset: Int, value:
Byte)\n  fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n  fun
setUint16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n  fun setInt32(byteOffset: Int,
value: Int, littleEndian: Boolean = definedExternally)\n  fun setUint32(byteOffset: Int, value: Int, littleEndian:
Boolean = definedExternally)\n  fun setFloat32(byteOffset: Int, value: Float, littleEndian: Boolean =
definedExternally)\n  fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean =
definedExternally)\n}\n\npublic external interface BufferDataSource\n\npublic external interface
TexImageSource", /*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n//
NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for
details\n\npackage org.w3c.dom.clipboard\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface ClipboardEventInit : EventInit {\n  var
clipboardData: DataTransfer? /* = null *\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress("\INVISIBLE_REFERENCE",
"\INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ClipboardEventInit(clipboardData:
DataTransfer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
ClipboardEventInit {\n  val o = js("{}")\n  o["clipboardData"] = clipboardData\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes
the JavaScript [ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin\n
*\npublic external open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) :
Event {\n  open val clipboardData: DataTransfer?\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to
Kotlin\n *\npublic external abstract class Clipboard : EventTarget {\n  fun read(): Promise<DataTransfer>\n  fun
readText(): Promise<String>\n  fun write(data: DataTransfer): Promise<Unit>\n  fun writeText(data: String):
Promise<Unit>\n}\n\npublic external interface ClipboardPermissionDescriptor {\n  var allowWithoutGesture:
Boolean? /* = false *\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress("\INVISIBLE_REFERENCE",
"\INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {\n  val
o = js("{}")\n  o["allowWithoutGesture"] = allowWithoutGesture\n  return o\n}", /*\n * Copyright 2010-
2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.css\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\n\npublic external abstract class MediaList :
ItemArrayLike<String> {\n  open var mediaText: String\n  fun appendMedium(medium: String)\n  fun
deleteMedium(medium: String)\n  override fun item(index: Int):
String?\n}\n\n@Suppress("\INVISIBLE_REFERENCE",

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\ "INVISIBLE_MEMBER" ) \n @kotlin.internal.InlineOnly \n public
inline operator fun MediaList.get(index: Int): String? = asDynamic()[index] \n \n /** \n * Exposes the JavaScript
[StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin \n * \n public external abstract
class StyleSheet { \n open val type: String \n open val href: String? \n open val ownerNode:
UnionElementOrProcessingInstruction? \n open val parentStyleSheet: StyleSheet? \n open val title: String? \n
open val media: MediaList \n open var disabled: Boolean \n } \n \n /** \n * Exposes the JavaScript
[CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin \n * \n public external
abstract class CSSStyleSheet : StyleSheet { \n open val ownerRule: CSSRule? \n open val cssRules:
CSSRuleList \n fun insertRule(rule: String, index: Int): Int \n fun deleteRule(index: Int) \n } \n \n /** \n * Exposes the
JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin \n * \n public
external
abstract class StyleSheetList : ItemArrayLike<StyleSheet> { \n override fun item(index: Int):
StyleSheet? \n } \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER" ) \n @kotlin.internal.InlineOnly \n public inline operator fun StyleSheetList.get(index: Int):
StyleSheet? = asDynamic()[index] \n \n /** \n * Exposes the JavaScript
[LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin \n * \n public external interface
LinkStyle { \n val sheet: StyleSheet? \n get() = definedExternally \n } \n \n /** \n * Exposes the JavaScript
[CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin \n * \n public external abstract
class CSSRuleList : ItemArrayLike<CSSRule> { \n override fun item(index: Int):
CSSRule? \n } \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER" ) \n @kotlin.internal.InlineOnly \n public inline operator fun CSSRuleList.get(index: Int):
CSSRule? = asDynamic()[index] \n \n /** \n * Exposes the JavaScript
[CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule)
to Kotlin \n * \n public external abstract class CSSRule { \n open val type: Short \n open var cssText: String \n
open val parentRule: CSSRule? \n open val parentStyleSheet: CSSStyleSheet? \n \n companion object { \n val
STYLE_RULE: Short \n val CHARSET_RULE: Short \n val IMPORT_RULE: Short \n val
MEDIA_RULE: Short \n val FONT_FACE_RULE: Short \n val PAGE_RULE: Short \n val
MARGIN_RULE: Short \n val NAMESPACE_RULE: Short \n } \n } \n \n /** \n * Exposes the JavaScript
[CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule) to Kotlin \n * \n public external
abstract class CSSStyleRule : CSSRule { \n open var selectorText: String \n open val style:
CSSStyleDeclaration \n \n companion object { \n val STYLE_RULE: Short \n val CHARSET_RULE:
Short \n val IMPORT_RULE: Short \n val MEDIA_RULE: Short \n val FONT_FACE_RULE: Short \n
val PAGE_RULE: Short \n val MARGIN_RULE: Short \n val NAMESPACE_RULE: Short \n } \n } \n \n public external abstract class
CSSImportRule : CSSRule { \n open val href: String \n open val media: MediaList \n open val sheet:
CSSStyleSheet \n \n companion object { \n val STYLE_RULE: Short \n val CHARSET_RULE: Short \n
val IMPORT_RULE: Short \n val MEDIA_RULE: Short \n val FONT_FACE_RULE: Short \n val
PAGE_RULE: Short \n val MARGIN_RULE: Short \n val NAMESPACE_RULE: Short \n } \n } \n \n /** \n * Exposes the JavaScript
[CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule) to
Kotlin \n * \n public external abstract class CSSGroupingRule : CSSRule { \n open val cssRules: CSSRuleList \n
fun insertRule(rule: String, index: Int): Int \n fun deleteRule(index: Int) \n \n companion object { \n val
STYLE_RULE: Short \n val CHARSET_RULE: Short \n val IMPORT_RULE: Short \n val
MEDIA_RULE: Short \n val FONT_FACE_RULE: Short \n val PAGE_RULE: Short \n val MARGIN_RULE: Short \n val
NAMESPACE_RULE: Short \n } \n } \n \n /** \n * Exposes the JavaScript
[CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin \n * \n public external
abstract class CSSMediaRule : CSSGroupingRule { \n open val media: MediaList \n \n companion object { \n
val STYLE_RULE: Short \n val CHARSET_RULE: Short \n val IMPORT_RULE: Short \n val

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MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val
MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n } \n \n /** \n * Exposes the JavaScript
[CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin \n */ \n public external
abstract class CSSPageRule : CSSGroupingRule { \n    open var selectorText: String \n    open val style:
CSSStyleDeclaration \n \n    companion object { \n        val STYLE_RULE: Short\n        val CHARSET_RULE:
Short\n        val IMPORT_RULE: Short\n        val MEDIA_RULE: Short\n        val FONT_FACE_RULE: Short\n
        val PAGE_RULE: Short\n        val MARGIN_RULE: Short\n        val NAMESPACE_RULE: Short\n
    } \n \n \n public external abstract class CSSMarginRule : CSSRule { \n    open val name: String \n    open val style:
CSSStyleDeclaration \n \n    companion object { \n        val STYLE_RULE: Short\n        val CHARSET_RULE:
Short\n        val IMPORT_RULE: Short\n        val MEDIA_RULE: Short\n        val FONT_FACE_RULE: Short\n
        val PAGE_RULE: Short\n        val MARGIN_RULE: Short\n        val NAMESPACE_RULE: Short\n
    } \n \n \n /** \n * Exposes the JavaScript
[CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin \n */ \n public
external abstract class CSSNamespaceRule : CSSRule { \n    open val namespaceURI: String \n    open val prefix:
String \n \n    companion object { \n        val STYLE_RULE: Short\n        val CHARSET_RULE: Short\n        val
IMPORT_RULE:
Short\n        val MEDIA_RULE: Short\n        val FONT_FACE_RULE: Short\n        val PAGE_RULE: Short\n
        val MARGIN_RULE: Short\n        val NAMESPACE_RULE: Short\n
    } \n \n \n /** \n * Exposes the JavaScript
[CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin \n */ \n public
external abstract class CSSStyleDeclaration : ItemArrayLike<String> { \n    open var cssText: String \n    open val
parentRule: CSSRule? \n    open var cssFloat: String \n    open var alignContent: String \n    open var alignItems:
String \n    open var alignSelf: String \n    open var animation: String \n    open var animationDelay: String \n    open
var animationDirection: String \n    open var animationDuration: String \n    open var animationFillMode: String \n
    open var animationIterationCount: String \n    open var animationName: String \n    open var animationPlayState:
String \n    open var animationTimingFunction: String \n    open var backfaceVisibility: String \n
        open var background: String \n    open var backgroundAttachment: String \n    open var backgroundClip: String \n
    open var backgroundColor: String \n    open var backgroundImage: String \n    open var backgroundOrigin: String \n
    open var backgroundPosition: String \n    open var backgroundRepeat: String \n    open var backgroundSize: String \n
    open var border: String \n    open var borderBottom: String \n    open var borderBottomColor: String \n    open var
borderBottomLeftRadius: String \n    open var borderBottomRightRadius: String \n    open var borderBottomStyle:
String \n    open var borderBottomWidth: String \n    open var borderCollapse: String \n    open var borderColor:
String \n    open var borderImage: String \n    open var borderImageOutset: String \n    open var borderImageRepeat:
String \n    open var borderImageSlice: String \n    open var borderImageSource: String \n    open var
borderImageWidth: String \n    open var borderLeft: String \n    open var borderLeftColor: String \n    open
var borderLeftStyle: String \n    open var borderLeftWidth: String \n    open var borderRadius: String \n    open var
borderRight: String \n    open var borderRightColor: String \n    open var borderRightStyle: String \n    open var
borderRightWidth: String \n    open var borderSpacing: String \n    open var borderStyle: String \n    open var
borderTop: String \n    open var borderTopColor: String \n    open var borderTopLeftRadius: String \n    open var
borderTopRightRadius: String \n    open var borderTopStyle: String \n    open var borderTopWidth: String \n    open
var borderWidth: String \n    open var bottom: String \n    open var boxDecorationBreak: String \n    open var
boxShadow: String \n    open var boxSizing: String \n    open var breakAfter: String \n    open var breakBefore:
String \n    open var breakInside: String \n    open var captionSide: String \n    open var clear: String \n    open var clip:
String \n    open var color: String \n    open var columnCount: String \n    open var columnFill: String \n
        open var columnGap: String \n    open var columnRule: String \n    open var columnRuleColor: String \n    open var
columnRuleStyle: String \n    open var columnRuleWidth: String \n    open var columnSpan: String \n    open var
columnWidth: String \n    open var columns: String \n    open var content: String \n    open var counterIncrement:
String \n    open var counterReset: String \n    open var cursor: String \n    open var direction: String \n    open var
display: String \n    open var emptyCells: String \n    open var filter: String \n    open var flex: String \n    open var

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flexBasis: String\n open var flexDirection: String\n open var flexFlow: String\n open var flexGrow: String\n
open var flexShrink: String\n open var flexWrap: String\n open var font: String\n open var fontFamily:
String\n open var fontFeatureSettings: String\n open var fontKerning: String\n open var
fontLanguageOverride: String\n open var fontSize: String\n open var fontSizeAdjust: String\n
open var fontStretch: String\n open var fontStyle: String\n open var fontSynthesis: String\n open var
fontVariant: String\n open var fontVariantAlternates: String\n open var fontVariantCaps: String\n open var
fontVariantEastAsian: String\n open var fontVariantLigatures: String\n open var fontVariantNumeric: String\n
open var fontVariantPosition: String\n open var fontWeight: String\n open var hangingPunctuation: String\n
open var height: String\n open var hyphens: String\n open var imageOrientation: String\n open var
imageRendering: String\n open var imageResolution: String\n open var imeMode: String\n open var
justifyContent: String\n open var left: String\n open var letterSpacing: String\n open var lineBreak: String\n
open var lineHeight: String\n open var listStyle: String\n open var listStyleImage: String\n open var
listStylePosition: String\n open var listStyleType: String\n open var margin:
String\n open var marginBottom: String\n open var marginLeft: String\n open var marginRight: String\n
open var marginTop: String\n open var mark: String\n open var markAfter: String\n open var markBefore:
String\n open var marks: String\n open var marqueeDirection: String\n open var marqueePlayCount: String\n
open var marqueeSpeed: String\n open var marqueeStyle: String\n open var mask: String\n open var
maskType: String\n open var maxHeight: String\n open var maxWidth: String\n open var minHeight: String\n
open var minWidth: String\n open var navDown: String\n open var navIndex: String\n open var navLeft:
String\n open var navRight: String\n open var navUp: String\n open var objectFit: String\n open var
objectPosition: String\n open var opacity: String\n open var order: String\n open var orphans: String\n open
var outline: String\n open var outlineColor: String\n open var outlineOffset: String\n
open var outlineStyle: String\n open var outlineWidth: String\n open var overflowWrap: String\n open var
overflowX: String\n open var overflowY: String\n open var padding: String\n open var paddingBottom:
String\n open var paddingLeft: String\n open var paddingRight: String\n open var paddingTop: String\n open
var pageBreakAfter: String\n open var pageBreakBefore: String\n open var pageBreakInside: String\n open var
perspective: String\n open var perspectiveOrigin: String\n open var phonemes: String\n open var position:
String\n open var quotes: String\n open var resize: String\n open var rest: String\n open var restAfter:
String\n open var restBefore: String\n open var right: String\n open var tabSize: String\n open var
tableLayout: String\n open var textAlign: String\n open var textAlignLast: String\n open var
textCombineUpright: String\n open var textDecoration: String\n open var textDecorationColor:
String\n open var textDecorationLine: String\n open var textDecorationStyle: String\n open var textIndent:
String\n open var textJustify: String\n open var textOrientation: String\n open var textOverflow: String\n
open var textShadow: String\n open var textTransform: String\n open var textUnderlinePosition: String\n open
var top: String\n open var transform: String\n open var transformOrigin: String\n open var transformStyle:
String\n open var transition: String\n open var transitionDelay: String\n open var transitionDuration: String\n
open var transitionProperty: String\n open var transitionTimingFunction: String\n open var unicodeBidi:
String\n open var verticalAlign: String\n open var visibility: String\n open var voiceBalance: String\n open
var voiceDuration: String\n open var voicePitch: String\n open var voicePitchRange: String\n open var
voiceRate: String\n open var voiceStress: String\n
open var voiceVolume: String\n open var whiteSpace: String\n open var widows: String\n open var width:
String\n open var wordBreak: String\n open var wordSpacing: String\n open var wordWrap: String\n open
var writingMode: String\n open var zIndex: String\n open var _dashed_attribute: String\n open var
_camel_cased_attribute: String\n open var _webkit_cased_attribute: String\n fun getPropertyValue(property:
String): String\n fun getPropertyPriority(property: String): String\n fun setProperty(property: String, value:
String, priority: String = definedExternally)\n fun setPropertyValue(property: String, value: String)\n fun
setPropertyPriority(property: String, priority: String)\n fun removeProperty(property: String): String\n override
fun item(index: Int): String\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

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\ "INVISIBLE_MEMBER"\n@kotlin.internal.InlineOnly\npublic inline operator fun
CSSStyleDeclaration.get(index: Int): String? = asDynamic()[index]\n\npublic
external interface ElementCSSInlineStyle {\n    val style: CSSStyleDeclaration\n}\n\n/**\n * Exposes the
JavaScript [CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin\n */\n\npublic external abstract class
CSS {\n    companion object {\n        fun escape(ident: String): String\n    }\n}\n\npublic external interface
UnionElementOrProcessingInstruction", "/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.dom.encryptedmedia\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes the JavaScript
[MediaKeySystemConfiguration](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemConfiguration)
to Kotlin\n */\n\npublic
external interface MediaKeySystemConfiguration {\n    var label: String? /* = "" */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var initDataTypes: Array<String>? /* = arrayOf() */\n
        get() = definedExternally\n        set(value) = definedExternally\n    var audioCapabilities:
Array<MediaKeySystemMediaCapability>? /* = arrayOf() */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var videoCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */\n
        get() = definedExternally\n        set(value) = definedExternally\n    var distinctiveIdentifier:
MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */\n        get() = definedExternally\n
        set(value) = definedExternally\n    var persistentState: MediaKeysRequirement? /* =
MediaKeysRequirement.OPTIONAL */\n        get() = definedExternally\n        set(value) = definedExternally\n
    var sessionTypes: Array<String>?\n        get() =
definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun MediaKeySystemConfiguration(label:
String? = "", initDataTypes: Array<String>? = arrayOf(), audioCapabilities:
Array<MediaKeySystemMediaCapability>? = arrayOf(), videoCapabilities:
Array<MediaKeySystemMediaCapability>? = arrayOf(), distinctiveIdentifier: MediaKeysRequirement? =
MediaKeysRequirement.OPTIONAL, persistentState: MediaKeysRequirement? =
MediaKeysRequirement.OPTIONAL, sessionTypes: Array<String>? = undefined): MediaKeySystemConfiguration
{\n    val o = js("{}")\n    o["label"] = label\n    o["initDataTypes"] = initDataTypes\n
    o["audioCapabilities"] = audioCapabilities\n    o["videoCapabilities"] = videoCapabilities\n
    o["distinctiveIdentifier"] = distinctiveIdentifier\n    o["persistentState"] = persistentState\n    o["sessionTypes"]
= sessionTypes\n    return o\n}\n\npublic external
interface MediaKeySystemMediaCapability {\n    var contentType: String? /* = "" */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var robustness: String? /* = "" */\n        get() =
definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun
MediaKeySystemMediaCapability(contentType: String? = "", robustness: String? = ""):
MediaKeySystemMediaCapability {\n    val o = js("{}")\n    o["contentType"] = contentType\n
    o["robustness"] = robustness\n    return o\n}\n\n/**\n * Exposes the JavaScript
[MediaKeySystemAccess](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemAccess) to Kotlin\n
*/\n\npublic external abstract class MediaKeySystemAccess {\n    open val keySystem: String\n    fun
getConfiguration(): MediaKeySystemConfiguration\n    fun createMediaKeys(): Promise<MediaKeys>\n}\n\n/**\n
 * Exposes the JavaScript [MediaKeys](https://developer.mozilla.org/en/docs/Web/API/MediaKeys)
to Kotlin\n */\n\npublic external abstract class MediaKeys {\n    fun createSession(sessionType:
MediaKeySessionType = definedExternally): MediaKeySession\n    fun setServerCertificate(serverCertificate:
dynamic): Promise<Boolean>\n}\n\n/**\n * Exposes the JavaScript
[MediaKeySession](https://developer.mozilla.org/en/docs/Web/API/MediaKeySession) to Kotlin\n */\n\npublic

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external abstract class MediaKeySession : EventTarget {
    open val sessionId: String
    open val expiration: Double
    open val closed: Promise<Unit>
    open val keyStatuses: MediaKeyStatusMap
    open var onkeystatuseschange: ((Event) -> dynamic)?
    open var onmessage: ((MessageEvent) -> dynamic)?
    fun generateRequest(initDataType: String, initData: dynamic): Promise<Unit>
    fun load(sessionId: String): Promise<Boolean>
    fun update(response: dynamic): Promise<Unit>
    fun close(): Promise<Unit>
    fun remove(): Promise<Unit>
}

* Exposes the JavaScript

[MediaKeyStatusMap](https://developer.mozilla.org/en/docs/Web/API/MediaKeyStatusMap) to Kotlin
*/
public external abstract class MediaKeyStatusMap {
    open val size: Int
    fun has(keyId: dynamic): Boolean
    fun get(keyId: dynamic): Any?
}

* Exposes the JavaScript

[MediaKeyMessageEvent](https://developer.mozilla.org/en/docs/Web/API/MediaKeyMessageEvent) to Kotlin
*/
public external open class MediaKeyMessageEvent(type: String, eventInitDict: MediaKeyMessageEventInit) :
    Event {
    open val messageType: MediaKeyMessageType
    open val message: ArrayBuffer
    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface MediaKeyMessageEventInit : EventInit {
    var messageType: MediaKeyMessageType?
    var message: ArrayBuffer?
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun MediaKeyMessageEventInit(messageType: MediaKeyMessageType?, message: ArrayBuffer?, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaKeyMessageEventInit {
    val o = js("{}")
    o["messageType"] = messageType
    o["message"] = message
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external open class MediaEncryptedEvent(type: String, eventInitDict: MediaEncryptedEventInit = definedExternally) : Event {
    open val initDataType: String
    open val initData: ArrayBuffer?
    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface MediaEncryptedEventInit : EventInit {
    var initDataType: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
    var initData: ArrayBuffer? /* = null */
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun MediaEncryptedEventInit(initDataType: String? = "", initData: ArrayBuffer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaEncryptedEventInit {
    val o = js("{}")
    o["initDataType"] = initDataType
    o["initData"] = initData
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/* please, don't implement this interface! */
@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface MediaKeysRequirement {
    companion object {
        public inline val MediaKeysRequirement.Companion.REQUIRED: MediaKeysRequirement get() = "required".asDynamic().unsafeCast<MediaKeysRequirement>()
        public inline val MediaKeysRequirement.Companion.OPTIONAL: MediaKeysRequirement get() = "optional".asDynamic().unsafeCast<MediaKeysRequirement>()
        public inline val MediaKeysRequirement.Companion.NOT_ALLOWED: MediaKeysRequirement get() = "not-allowed".asDynamic().unsafeCast<MediaKeysRequirement>()
    }
}

/* please, don't implement this interface! */
@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface MediaKeySessionType {
    companion object {
        public inline val MediaKeySessionType.Companion.TEMPORARY: MediaKeySessionType get() = "temporary".asDynamic().unsafeCast<MediaKeySessionType>()
        public inline val MediaKeySessionType.Companion.PERSISTENT_LICENSE: MediaKeySessionType get() = "persistent-license".asDynamic().unsafeCast<MediaKeySessionType>()
    }
}

```

```

*\n@jsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface MediaKeyStatus {\n  companion object\n}\n\npublic inline
  val MediaKeyStatus.Companion.USABLE: MediaKeyStatus get() =
  \"usable\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.EXPIRED: MediaKeyStatus get() =
  \"expired\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.RELEASED: MediaKeyStatus get() =
  \"released\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.OUTPUT_RESTRICTED: MediaKeyStatus get() = \"output-
restricted\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.OUTPUT_DOWNSCALED: MediaKeyStatus get() = \"output-
downscaled\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.STATUS_PENDING: MediaKeyStatus get() = \"status-
pending\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.INTERNAL_ERROR: MediaKeyStatus get() = \"internal-
error\".asDynamic().unsafeCast<MediaKeyStatus>()\n\n/* please, don't implement
this interface! */\n@jsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic
external interface MediaKeyMessageType {\n  companion object\n}\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_REQUEST: MediaKeyMessageType get() = \"license-
request\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_RENEWAL: MediaKeyMessageType get() = \"license-
renewal\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_RELEASE: MediaKeyMessageType get() = \"license-
release\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.INDIVIDUALIZATION_REQUEST: MediaKeyMessageType get() =
  \"individualization-request\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\n/*\n * Copyright 2010-2022
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.events\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\n\n/**\n * Exposes the JavaScript
[UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin\n */\n\npublic external open class
UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {\n  open val view: Window?\n  open
val detail: Int\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET:
Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface UIEventInit :
EventInit {\n  var view: Window? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var detail: Int? /* = 0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic
inline fun UIEventInit(view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): UIEventInit {\n  val o = js("{}")\n  o["view"] = view\n  o["detail"] =
detail\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return
o\n}\n\n/**\n * Exposes the JavaScript [FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent)
to Kotlin\n */\n\npublic external open class FocusEvent(type: String, eventInitDict: FocusEventInit =
definedExternally) : UIEvent {\n  open val relatedTarget: EventTarget?\n\n  companion object {\n    val
NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface FocusEventInit : UIEventInit {\n  var
relatedTarget: EventTarget? /* = null */\n    get() = definedExternally\n

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set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun FocusEventInit(relatedTarget:
EventTarget? = null, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): FocusEventInit {\n val o = js(\"({})\")\n o[\"relatedTarget\"] =
relatedTarget\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] =
cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin\n *\npublic external open
class MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) : UIEvent,
UnionElementOrMouseEvent {\n open val screenX: Int\n open val screenY: Int\n open val clientX: Int\n
open val clientY: Int\n open val ctrlKey: Boolean\n open val shiftKey:
Boolean\n open val altKey: Boolean\n open val metaKey: Boolean\n open val button: Short\n open val
buttons: Short\n open val relatedTarget: EventTarget?\n open val region: String?\n open val pageX: Double\n
open val pageY: Double\n open val x: Double\n open val y: Double\n open val offsetX: Double\n open val
offsetY: Double\n fun getModifierState(keyArg: String): Boolean\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n}\n\npublic external interface MouseEventInit : EventModifierInit {\n var screenX: Int? /* = 0 */\n
get() = definedExternally\n set(value) = definedExternally\n var screenY: Int? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var clientX: Int? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var clientY: Int? /* = 0 */\n
get() = definedExternally\n set(value) = definedExternally\n var button: Short? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var buttons: Short? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var relatedTarget: EventTarget? /* = null */\n get()
= definedExternally\n set(value) = definedExternally\n var region: String? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MouseEventInit(screenX: Int? = 0,
screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget:
EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean?
= false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean?
= false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false,
modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false,
modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MouseEventInit {\n val o =
js(\"({})\")\n o[\"screenX\"] = screenX\n o[\"screenY\"] = screenY\n o[\"clientX\"] = clientX\n o[\"clientY\"]
= clientY\n o[\"button\"] = button\n o[\"buttons\"] = buttons\n o[\"relatedTarget\"] = relatedTarget\n
o[\"region\"] = region\n o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n
o[\"metaKey\"] = metaKey\n o[\"modifierAltGraph\"] = modifierAltGraph\n o[\"modifierCapsLock\"] =
modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n
o[\"modifierHyper\"] = modifierHyper\n o[\"modifierNumLock\"] = modifierNumLock\n
o[\"modifierScrollLock\"] = modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n
o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] =
view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] =
composed\n return o\n}\n\npublic external interface EventModifierInit : UIEventInit {\n var ctrlKey: Boolean?
/* = false */\n get() = definedExternally\n set(value) = definedExternally\n var shiftKey: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var altKey: Boolean? /* = false
*/\n get() = definedExternally\n set(value) = definedExternally\n var metaKey: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierAltGraph:
Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var
modifierCapsLock: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n

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var modifierFn: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n var
modifierFnLock: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n var
modifierHyper: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n var
modifierNumLock: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n
var modifierScrollLock: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n var modifierSuper: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n var modifierSymbol: Boolean? /* =
false */\n    get() = definedExternally\n    set(value) = definedExternally\n var modifierSymbolLock:
Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventModifierInit(ctrlKey: Boolean? =
false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph:
Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? =
false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): EventModifierInit {\n    val o = js(\"({})\")\n    o[\"ctrlKey\"] = ctrlKey\n
    o[\"shiftKey\"] = shiftKey\n    o[\"altKey\"] = altKey\n    o[\"metaKey\"] = metaKey\n    o[\"modifierAltGraph\"]
= modifierAltGraph\n    o[\"modifierCapsLock\"] = modifierCapsLock\n    o[\"modifierFn\"] = modifierFn\n
    o[\"modifierFnLock\"] = modifierFnLock\n    o[\"modifierHyper\"] = modifierHyper\n    o[\"modifierNumLock\"] =
modifierNumLock\n    o[\"modifierScrollLock\"] = modifierScrollLock\n    o[\"modifierSuper\"] = modifierSuper\n
    o[\"modifierSymbol\"] = modifierSymbol\n    o[\"modifierSymbolLock\"] = modifierSymbolLock\n    o[\"view\"] =
view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] =
composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\n */\npublic external open
class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {\n    open val
deltaX: Double\n    open val deltaY: Double\n
    open val deltaZ: Double\n    open val deltaMode: Int\n\n    companion object {\n        val DOM_DELTA_PIXEL:
Int\n        val DOM_DELTA_LINE: Int\n        val DOM_DELTA_PAGE: Int\n        val NONE: Short\n        val
CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n
    }\n\n    public external interface WheelEventInit : MouseEventInit {\n        var deltaX: Double? /* = 0.0 */\n
        get() = definedExternally\n        set(value) = definedExternally\n        var deltaY: Double? /* = 0.0 */\n
        get() = definedExternally\n        set(value) = definedExternally\n        var deltaZ: Double? /* = 0.0 */\n
        get() = definedExternally\n        set(value) = definedExternally\n        var deltaMode: Int? /* = 0 */\n
        get() = definedExternally\n        set(value) = definedExternally\n    }\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline fun WheelEventInit(deltaX: Double? = 0.0,
deltaY: Double?
= 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY:
Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey:
Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false,
modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false,
modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false,
modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false,
modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\n        val o = js(\"({})\")\n
        o[\"deltaX\"] = deltaX\n        o[\"deltaY\"] = deltaY\n        o[\"deltaZ\"] = deltaZ\n        o[\"deltaMode\"] = deltaMode\n
        o[\"screenX\"] = screenX\n

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o["screenY"] = screenY\n  o["clientX"] = clientX\n  o["clientY"] = clientY\n  o["button"] = button\n
o["buttons"] = buttons\n  o["relatedTarget"] = relatedTarget\n  o["region"] = region\n  o["ctrlKey"] =
ctrlKey\n  o["shiftKey"] = shiftKey\n  o["altKey"] = altKey\n  o["metaKey"] = metaKey\n
o["modifierAltGraph"] = modifierAltGraph\n  o["modifierCapsLock"] = modifierCapsLock\n
o["modifierFn"] = modifierFn\n  o["modifierFnLock"] = modifierFnLock\n  o["modifierHyper"] =
modifierHyper\n  o["modifierNumLock"] = modifierNumLock\n  o["modifierScrollLock"] =
modifierScrollLock\n  o["modifierSuper"] = modifierSuper\n  o["modifierSymbol"] = modifierSymbol\n
o["modifierSymbolLock"] = modifierSymbolLock\n  o["view"] = view\n  o["detail"] = detail\n
o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return
o\n}\n\n/**\n * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent)
to Kotlin\n *\npublic external open class InputEvent(type: String, eventInitDict: InputEventInit =
definedExternally) : UIEvent {\n  open val data: String\n  open val isComposing: Boolean\n\n  companion object
{\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface InputEventInit : UIEventInit {\n  var data:
String? /* = \"\" */\n  get() = definedExternally\n  set(value) = definedExternally\n  var isComposing:
Boolean? /* = false */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun InputEventInit(data: String? = \"\",
isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean?
= false): InputEventInit {\n  val o = js(\"({})\")\n  o[\"data\"] = data\n  o[\"isComposing\"] = isComposing\n
o[\"view\"] = view\n  o[\"detail\"] = detail\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\n *\npublic external
open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {\n
open val key: String\n  open val code: String\n  open val location: Int\n  open val ctrlKey: Boolean\n  open val
shiftKey: Boolean\n  open val altKey: Boolean\n  open val metaKey: Boolean\n  open val repeat: Boolean\n
open val isComposing: Boolean\n  open val charCode: Int\n  open val keyCode: Int\n  open val which: Int\n
fun getModifierState(keyArg: String): Boolean\n\n  companion object {\n    val
DOM_KEY_LOCATION_STANDARD:
Int\n    val DOM_KEY_LOCATION_LEFT: Int\n    val DOM_KEY_LOCATION_RIGHT: Int\n    val
DOM_KEY_LOCATION_NUMPAD: Int\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n
val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface
KeyboardEventInit : EventModifierInit {\n  var key: String? /* = \"\" */\n  get() = definedExternally\n
set(value) = definedExternally\n  var code: String? /* = \"\" */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var location: Int? /* = 0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var repeat: Boolean? /* = false */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var isComposing: Boolean? /* = false */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline
fun KeyboardEventInit(key: String? = \"\", code: String? = \"\", location: Int? = 0, repeat: Boolean? = false,
isComposing: Boolean? = false, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false,
metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn:
Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock:
Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol:
Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): KeyboardEventInit {\n  val o =
js(\"({})\")\n  o[\"key\"] = key\n  o[\"code\"] = code\n  o[\"location\"] = location\n  o[\"repeat\"] = repeat\n

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o["isComposing"] = isComposing\n  o["ctrlKey"] = ctrlKey\n  o["shiftKey"] = shiftKey\n  o["altKey"] = altKey\n  o["metaKey"] = metaKey\n  o["modifierAltGraph"] = modifierAltGraph\n
o["modifierCapsLock"] = modifierCapsLock\n  o["modifierFn"] = modifierFn\n  o["modifierFnLock"] = modifierFnLock\n  o["modifierHyper"] = modifierHyper\n  o["modifierNumLock"] = modifierNumLock\n
o["modifierScrollLock"] = modifierScrollLock\n  o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n  o["modifierSymbolLock"] = modifierSymbolLock\n  o["view"] = view\n  o["detail"] = detail\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin\n *\npublic external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) :
UIEvent {\n  open val data: String\n  companion object {\n    val NONE: Short\n      val CAPTURING_PHASE: Short\n      val AT_TARGET: Short\n      val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface CompositionEventInit : UIEventInit {\n  var data: String? /* = \"\" */\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CompositionEventInit(data: String? = \"\", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CompositionEventInit {\n  val o = js(\"({})\")\n  o[\"data\"] = data\n  o[\"view\"] = view\n  o[\"detail\"] = detail\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin\n *\npublic external open class Event(type: String, eventInitDict: EventInit = definedExternally)
{\n  open val type: String\n  open val target: EventTarget?\n  open val currentTarget: EventTarget?\n  open val eventPhase: Short\n  open val bubbles: Boolean\n  open val cancelable: Boolean\n  open val defaultPrevented: Boolean\n  open val composed: Boolean\n  open val isTrusted: Boolean\n  open val timeStamp: Number\n  fun composedPath(): Array<EventTarget>\n  fun stopPropagation()\n  fun stopImmediatePropagation()\n  fun preventDefault()\n  fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin\n *\npublic external abstract class EventTarget {\n  fun addEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally)\n  fun addEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally)\n  fun removeEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally)\n  fun removeEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally)\n  fun dispatchEvent(event: Event): Boolean\n}\n\n/**\n * Exposes the JavaScript
[EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin\n *\npublic external interface EventListener {\n  fun handleEvent(event: Event)\n}\n\", /*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external abstract class HTMLAllCollection {\n  open val length: Int\n  fun item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?\n  fun namedItem(name: String): UnionElementOrHTMLCollection?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun

```

```

HTMLAllCollection.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? = asDynamic()[name]\n\n/**\n *
Exposes the JavaScript
[HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection)
to Kotlin\n * \n\npublic external abstract class HTMLFormControlsCollection : HTMLCollection\n\n/**\n * Exposes
the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\n
*\n\npublic external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {\n  open var value:
String\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin\n
*\n\npublic external abstract class HTMLOptionsCollection : HTMLCollection {\n  override var length: Int\n  open
var selectedIndex: Int\n  fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before:
dynamic = definedExternally)\n  fun remove(index: Int)\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
HTMLOptionsCollection.set(index: Int, option:
HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n * Exposes the JavaScript
[HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin\n * \n\npublic external
abstract class HTMLInputElement : Element, GlobalEventHandlers, DocumentAndElementEventHandlers,
ElementContentEditable, ElementCSSInlineStyle {\n  open var title: String\n  open var lang: String\n  open var
translate: Boolean\n  open var dir: String\n  open val dataset: DOMStringMap\n  open var hidden: Boolean\n
open var tabIndex: Int\n  open var accessKey: String\n  open val accessKeyLabel: String\n  open var draggable:
Boolean\n  open val dropzone: DOMTokenList\n  open var contextMenu: HTMLMenuElement?\n  open var
spellcheck: Boolean\n  open var innerText: String\n  open val offsetParent: Element?\n  open val offsetTop: Int\n
open val offsetLeft: Int\n  open val offsetWidth: Int\n  open val offsetHeight: Int\n  fun click()\n  fun focus()\n
fun blur()\n
  fun forceSpellCheck()\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin\n * \n\npublic external
abstract class HTMLUnknownElement
: HTMLInputElement {\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript

```



```

Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to
Kotlin\n */\npublic external abstract class HTMLLinkElement : HTMLInputElement, LinkStyle {\n    open var href:
String\n    open var crossOrigin: String?\n    open var rel: String\n    open var `as`: RequestDestination\n    open val
relList: DOMTokenList\n    open var media: String\n    open var nonce: String\n    open var hreflang: String\n
open var type: String\n    open val sizes: DOMTokenList\n    open var referrerPolicy: String\n    open var charset:
String\n    open var rev: String\n    open var target:
String\n    open var scope: String\n    open var workerType: WorkerType\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin\n */\npublic
external
abstract class HTMLMetaElement : HTMLInputElement {\n    open var name: String\n    open var httpEquiv: String\n
open var content: String\n    open var scheme: String\n\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement)
to Kotlin\n */\npublic external abstract class HTMLStyleElement : HTMLInputElement, LinkStyle {\n    open var media:
String\n    open var nonce: String\n    open var type: String\n\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin\n */\npublic
external abstract class HTMLBodyElement : HTMLInputElement, WindowEventHandlers {\n    open var text: String\n

```

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open var link: String\n open var vLink: String\n open var aLink: String\n open var bgColor: String\n open
var background: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING:
Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val
DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin\n
*\npublic external abstract class HTMLHeadingElement : HTMLElement {\n open var align: String\n\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS:
Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin\n
*\npublic external abstract class HTMLParagraphElement : HTMLElement {\n open var align: String\n\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING:
Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS:
Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin\n
*\npublic external abstract class HTMLHRElement : HTMLElement {\n open var align: String\n open var
color: String\n open var noShade: Boolean\n open var size: String\n open var width: String\n\n
companion
object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE:
Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val
DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes
the JavaScript [HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin\n
*\npublic external abstract class HTMLPreElement : HTMLElement {\n open var width: Int\n\n
companion

```

```

object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }
}

/** Exposes the JavaScript [HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin */
public external abstract class HTMLQuoteElement : HTMLElement {
    open var cite: String
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }
}

/** Exposes the JavaScript [HTMLLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLOListElement) to Kotlin */
public external abstract class HTMLLOListElement : HTMLElement {
    open var reversed: Boolean
    open var start: Int
    open var type: String
    open var compact: Boolean
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }
}

/** Exposes the JavaScript [HTMLLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLUListElement) to Kotlin */
public external abstract class HTMLLUListElement : HTMLElement {
    open var compact: Boolean
    open var type: String
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }
}

/** Exposes the JavaScript [HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin */
public external abstract class HTMLLIElement : HTMLElement {
    open var value: Int
    open var type: String
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
    }
}

```

```

Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val
DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val
NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement) to
Kotlin\n */\npublic external abstract class HTMLDListElement : HTMLElement {\n    open var compact:
Boolean\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n
        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin\n */\npublic
external abstract class HTMLDivElement : HTMLElement {\n    open var align: String\n\n    companion object {\n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n
        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin\n
*/\npublic external abstract class HTMLAnchorElement : HTMLElement, HTMLHyperlinkElementUtils {\n    open
var target: String\n    open var download: String\n    open var ping: String\n    open var rel: String\n    open val
reList: DOMTokenList\n    open var hreflang: String\n    open var type: String\n    open var text: String\n
    open var referrerPolicy: String\n    open var coords: String\n    open var charset: String\n    open var name:
String\n    open var rev: String\n    open var shape: String\n\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to Kotlin\n */\npublic
external abstract class HTMLDataElement : HTMLElement {\n    open var value: String\n\n    companion object {\n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val

```

CDATA\_SECTION\_NODE: Short\n     val ENTITY\_REFERENCE\_NODE: Short\n     val ENTITY\_NODE: Short\n     val PROCESSING\_INSTRUCTION\_NODE: Short\n     val COMMENT\_NODE: Short\n     val DOCUMENT\_NODE: Short\n     val DOCUMENT\_TYPE\_NODE: Short\n     val DOCUMENT\_FRAGMENT\_NODE: Short\n     val NOTATION\_NODE: Short\n     val DOCUMENT\_POSITION\_DISCONNECTED: Short\n     val DOCUMENT\_POSITION\_PRECEDING: Short\n     val DOCUMENT\_POSITION\_FOLLOWING: Short\n     val DOCUMENT\_POSITION\_CONTAINS: Short\n     val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n     val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n     }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin\n \*/\npublic external abstract class HTMLTimeElement : HTMLElement {\n     open var dateTime: String\n\n     companion object {\n         val ELEMENT\_NODE: Short\n         val ATTRIBUTE\_NODE: Short\n         val TEXT\_NODE: Short\n         val CDATA\_SECTION\_NODE: Short\n         val ENTITY\_REFERENCE\_NODE: Short\n         val ENTITY\_NODE: Short\n         val PROCESSING\_INSTRUCTION\_NODE: Short\n         val COMMENT\_NODE: Short\n         val DOCUMENT\_NODE: Short\n         val DOCUMENT\_TYPE\_NODE: Short\n         val DOCUMENT\_FRAGMENT\_NODE: Short\n         val NOTATION\_NODE: Short\n         val DOCUMENT\_POSITION\_DISCONNECTED: Short\n         val DOCUMENT\_POSITION\_PRECEDING: Short\n         val DOCUMENT\_POSITION\_FOLLOWING: Short\n         val DOCUMENT\_POSITION\_CONTAINS: Short\n         val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n         val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n         }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin\n \*/\npublic external abstract class HTMLSpanElement : HTMLElement {\n     companion object {\n         val ELEMENT\_NODE: Short\n         val ATTRIBUTE\_NODE: Short\n         val TEXT\_NODE: Short\n         val CDATA\_SECTION\_NODE: Short\n         val ENTITY\_REFERENCE\_NODE: Short\n         val ENTITY\_NODE: Short\n         val PROCESSING\_INSTRUCTION\_NODE: Short\n         val COMMENT\_NODE: Short\n         val DOCUMENT\_NODE: Short\n         val DOCUMENT\_TYPE\_NODE: Short\n         val DOCUMENT\_FRAGMENT\_NODE: Short\n         val NOTATION\_NODE: Short\n         val DOCUMENT\_POSITION\_DISCONNECTED: Short\n         val DOCUMENT\_POSITION\_PRECEDING: Short\n         val DOCUMENT\_POSITION\_FOLLOWING: Short\n         val DOCUMENT\_POSITION\_CONTAINS: Short\n         val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n         val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n         }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin\n \*/\npublic external abstract class HTMLBRElement : HTMLElement {\n     open var clear: String\n\n     companion object {\n         val ELEMENT\_NODE: Short\n         val ATTRIBUTE\_NODE: Short\n         val TEXT\_NODE: Short\n         val CDATA\_SECTION\_NODE: Short\n         val ENTITY\_REFERENCE\_NODE: Short\n         val ENTITY\_NODE: Short\n         val PROCESSING\_INSTRUCTION\_NODE: Short\n         val COMMENT\_NODE: Short\n         val DOCUMENT\_NODE: Short\n         val DOCUMENT\_TYPE\_NODE: Short\n         val DOCUMENT\_FRAGMENT\_NODE: Short\n         val NOTATION\_NODE: Short\n         val DOCUMENT\_POSITION\_DISCONNECTED: Short\n         val DOCUMENT\_POSITION\_PRECEDING: Short\n         val DOCUMENT\_POSITION\_FOLLOWING: Short\n         val DOCUMENT\_POSITION\_CONTAINS: Short\n         val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n         val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n         }\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to Kotlin\n \*/\npublic external interface HTMLHyperlinkElementUtils {\n     var href: String\n     var origin: String\n     var protocol: String\n     var username: String\n     var password: String\n     var host: String\n     var hostname: String\n     var port: String\n     var pathname: String\n     var search: String\n     var hash: String\n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to Kotlin\n \*/\npublic external abstract class HTMLModElement : HTMLElement {\n     open var cite: String\n     open var dateTime: String\n\n     companion object {\n         val ELEMENT\_NODE: Short\n         val



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ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n
    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin \n
*\npublic external abstract class HTMLPictureElement : HTMLInputElement { \n    companion object { \n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        } \n} \n \n /** \n * Exposes the JavaScript
[HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin \n
*\npublic external abstract class HTMLSourceElement : HTMLInputElement { \n    open var src: String \n    open var
type: String \n    open var srcset: String \n    open var sizes: String \n    open var media: String \n \n    companion object
{ \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n
        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        } \n} \n \n /** \n * Exposes the JavaScript
[HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin \n
*\npublic external abstract class HTMLImageElement : HTMLInputElement, HTMLORSVGImageElement,
TexImageSource { \n    open var alt: String \n    open var src: String \n    open var srcset: String \n    open var sizes:
String \n    open var crossOrigin: String? \n    open var useMap: String \n    open var
isMap: Boolean \n    open var width: Int \n    open var height: Int \n    open val naturalWidth: Int \n    open val
naturalHeight: Int \n    open val complete: Boolean \n    open val currentSrc: String \n    open var referrerPolicy:
String \n    open var name: String \n    open var lowsrc: String \n    open var align: String \n    open var hspace: Int \n
    open var vspace: Int \n    open var longDesc: String \n    open var border: String \n    open val x: Int \n    open val y:
Int \n \n    companion object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n
        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:

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Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to
Kotlin\n */\npublic external abstract class HTMLIFrameElement : HTMLInputElement {\n    open var src: String\n
open var srcdoc: String\n    open var name: String\n    open val sandbox: DOMTokenList\n    open var
allowFullscreen: Boolean\n    open var allowUserMedia: Boolean\n    open var width: String\n    open var height:
String\n    open varreferrerPolicy: String\n    open val contentDocument: Document?\n    open val contentWindow:
Window?\n    open var align: String\n    open var scrolling: String\n    open var frameBorder: String\n    open var
longDesc: String\n    open var marginHeight: String\n    open var
marginWidth: String\n    fun getSVGDocument(): Document?\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin\n
*/\npublic external abstract
class HTMLEmbedElement : HTMLInputElement {\n    open var src: String\n    open var type: String\n    open var
width: String\n    open var height: String\n    open var align: String\n    open var name: String\n    fun
getSVGDocument(): Document?\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin\n
*/\npublic external abstract class HTMLObjectElement : HTMLInputElement {\n    open var data: String\n    open var
type: String\n    open var typeMustMatch: Boolean\n    open var name: String\n    open var useMap: String\n    open
val form: HTMLFormElement?\n    open var width: String\n    open var height: String\n    open val
contentDocument: Document?\n    open val contentWindow: Window?\n    open val willValidate: Boolean\n    open
val validity: ValidityState\n    open val validationMessage: String\n    open var align: String\n    open var archive:
String\n    open var code: String\n    open var declare: Boolean\n    open var hspace: Int\n    open var standby:
String\n    open var vspace: Int\n    open var codeBase: String\n    open var codeType: String\n    open var border:
String\n    fun getSVGDocument(): Document?\n    fun checkValidity():
Boolean\n    fun reportValidity(): Boolean\n    fun setCustomValidity(error: String)\n\n    companion object {\n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to
Kotlin \n * \n public external abstract class HTMLParamElement : HTMLInputElement { \n    open var name: String \n
open var value: String \n    open var type: String \n    open var valueType: String \n \n    companion object { \n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the
JavaScript [HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to
Kotlin \n * \n public external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource,
TexImageSource { \n    open var width: Int \n    open var height: Int \n    open val videoWidth: Int \n    open val
videoHeight: Int \n    open var poster: String \n    open var playsInline: Boolean \n \n    companion object { \n    val
NETWORK_EMPTY: Short\n    val NETWORK_IDLE: Short\n    val NETWORK_LOADING: Short\n
val NETWORK_NO_SOURCE: Short\n    val HAVE_NOTHING: Short\n    val HAVE_METADATA:
Short\n    val HAVE_CURRENT_DATA: Short\n    val HAVE_FUTURE_DATA: Short\n    val
HAVE_ENOUGH_DATA: Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n
    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE:
Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin \n
* \n public external abstract class HTMLAudioElement : HTMLMediaElement { \n    companion object { \n    val
NETWORK_EMPTY: Short\n    val NETWORK_IDLE: Short\n    val NETWORK_LOADING: Short\n
val NETWORK_NO_SOURCE: Short\n    val HAVE_NOTHING: Short\n    val HAVE_METADATA:
Short\n    val HAVE_CURRENT_DATA: Short\n    val HAVE_FUTURE_DATA: Short\n
    val HAVE_ENOUGH_DATA: Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin \n * \n public

```

```

external abstract class HTMLTrackElement : HTMLInputElement {
    open var kind: String
    open var src: String
    open var srclang: String
    open var label: String
    open var default: Boolean
    open val readyState: Short
    open val track: TextTrack
    companion object {
        val NONE: Short
        val LOADING: Short
        val LOADED: Short
        val ERROR: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin */
public external abstract class HTMLMediaElement : HTMLInputElement {
    open val error: MediaError?
    open var src: String
    open var srcObject: MediaProvider?
    open val currentSrc: String
    open var crossOrigin: String?
    open val networkState: Short
    open var preload: String
    open val buffered: TimeRanges
    open val readyState: Short
    open val seeking: Boolean
    open var currentTime: Double
    open val duration: Double
    open val paused: Boolean
    open var defaultPlaybackRate: Double
    open var playbackRate: Double
    open val played: TimeRanges
    open val seekable: TimeRanges
    open val ended: Boolean
    open var autoplay: Boolean
    open var loop: Boolean
    open var controls: Boolean
    open var volume: Double
    open var muted: Boolean
    open var defaultMuted: Boolean
    open val audioTracks: AudioTrackList
    open val videoTracks: VideoTrackList
    open val textTracks: TextTrackList
    open val mediaKeys: MediaKeys?
    open var onencrypted: ((Event) -> dynamic)?
    open var onwaitingforkey: ((Event) -> dynamic)?
    fun load()
    fun canPlayType(type: String): CanPlayTypeResult
    fun fastSeek(time: Double)
    fun getStartDate(): dynamic
    fun play(): Promise<Unit>
    fun pause()
    fun addTextTrack(kind: TextTrackKind, label: String = definedExternally, language: String = definedExternally): TextTrack
    fun setMediaKeys(mediaKeys: MediaKeys?): Promise<Unit>
    companion object {
        val NETWORK_EMPTY: Short
        val NETWORK_IDLE: Short
        val NETWORK_LOADING: Short
        val NETWORK_NO_SOURCE: Short
        val HAVE_NOTHING: Short
        val HAVE_METADATA: Short
        val HAVE_CURRENT_DATA: Short
        val HAVE_FUTURE_DATA: Short
        val HAVE_ENOUGH_DATA: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript [MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin */
public external abstract class MediaError {
    open val code: Short
    companion object {
        val MEDIA_ERR_ABORTED: Short
        val MEDIA_ERR_NETWORK: Short
        val MEDIA_ERR_DECODE: Short
        val MEDIA_ERR_SRC_NOT_SUPPORTED: Short
    }
}

/** Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin */
public external abstract class AudioTrackList : EventTarget {
    open val length: Int
    open var

```

```

onchange: ((Event) -> dynamic)?\n  open var onaddtrack: ((TrackEvent) -> dynamic)?\n  open var
onremovetrack: ((TrackEvent) -> dynamic)?\n  fun getTrackById(id: String):
AudioTrack?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun AudioTrackList.get(index:
Int): AudioTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin\n *\npublic external abstract
class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack
{\n  open val id: String\n  open val kind: String\n  open val label: String\n  open val language: String\n  open
var enabled: Boolean\n  open val sourceBuffer: SourceBuffer?\n}\n\n/**\n * Exposes the JavaScript
[VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin\n *\npublic external
abstract class VideoTrackList : EventTarget {\n  open val length: Int\n  open val selectedIndex: Int\n  open var
onchange: ((Event) -> dynamic)?\n  open var onaddtrack: ((TrackEvent) -> dynamic)?\n  open var
onremovetrack: ((TrackEvent) -> dynamic)?\n  fun getTrackById(id: String):
VideoTrack?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun VideoTrackList.get(index:
Int): VideoTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin\n *\npublic external abstract
class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack
{\n  open val id: String\n  open val kind: String\n  open val label: String\n  open val language: String\n  open
var selected: Boolean\n  open val sourceBuffer: SourceBuffer?\n}\n\npublic external abstract class TextTrackList :
EventTarget {\n  open val length: Int\n  open var onchange: ((Event) -> dynamic)?\n  open var onaddtrack:
((TrackEvent) -> dynamic)?\n  open var onremovetrack: ((TrackEvent) -> dynamic)?\n  fun getTrackById(id:
String): TextTrack?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackList.get(index: Int):
TextTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin\n *\npublic external abstract
class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {\n  open val kind: TextTrackKind\n
open val label: String\n  open val language:
String\n  open val id: String\n  open val inBandMetadataTrackDispatchType: String\n  open var mode:
TextTrackMode\n  open val cues: TextTrackCueList?\n  open val activeCues: TextTrackCueList?\n  open var
oncuechange: ((Event) -> dynamic)?\n  open val sourceBuffer: SourceBuffer?\n  fun addCue(cue:
TextTrackCue)\n  fun removeCue(cue: TextTrackCue)\n}\n\npublic external abstract class TextTrackCueList {\n
open val length: Int\n  fun getCueById(id: String):
TextTrackCue?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackCueList.get(index:
Int): TextTrackCue? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin\n *\npublic external
abstract class TextTrackCue : EventTarget {\n  open val track: TextTrack?\n  open var id: String\n  open var
startTime: Double\n  open var endTime: Double\n  open
var pauseOnExit: Boolean\n  open var onenter: ((Event) -> dynamic)?\n  open var onexit: ((Event) ->
dynamic)?\n}\n\n/**\n * Exposes the JavaScript
[TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\n *\npublic external abstract
class TimeRanges {\n  open val length: Int\n  fun start(index: Int): Double\n  fun end(index: Int):
Double\n}\n\n/**\n * Exposes the JavaScript
[TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\n *\npublic external open class
TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {\n  open val track:
UnionAudioTrackOrTextTrackOrVideoTrack?\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n

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}\n}\n\npublic external interface TrackEventInit : EventInit {\n    var track:
UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */\n        get() = definedExternally\n
        set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun TrackEventInit(track:
UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): TrackEventInit {\n    val o = js("{}")\n    o["track"] = track\n    o["bubbles"] =
bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\n/**\n * Exposes the
JavaScript [HTMLMapElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMapElement) to Kotlin\n
*/\npublic external abstract class HTMLMapElement : HTMLElement {\n    open var name: String\n    open val
areas: HTMLCollection\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE:
Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val
DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to
Kotlin\n
*/\npublic external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils {\n
    open var alt: String\n    open var coords: String\n    open var shape: String\n    open var target: String\n
    open var download: String\n    open var ping: String\n    open var rel: String\n    open val relList: DOMTokenList\n
    open
var referrerPolicy:
String\n    open var noHref: Boolean\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin\n
*/\npublic
external abstract class HTMLTableElement
: HTMLElement {\n    open var caption: HTMLTableCaptionElement?\n    open var tHead:
HTMLTableSectionElement?\n    open var tFoot: HTMLTableSectionElement?\n    open val tBodies:
HTMLCollection\n    open val rows: HTMLCollection\n    open var align: String\n    open var border: String\n
open var frame: String\n    open var rules: String\n    open var summary: String\n    open var width: String\n
open
var bgColor: String\n    open var cellPadding: String\n    open var cellSpacing: String\n    fun createCaption():
HTMLTableCaptionElement\n    fun deleteCaption()\n    fun createTHead(): HTMLTableSectionElement\n    fun
deleteTHead()\n    fun createTFoot(): HTMLTableSectionElement\n    fun deleteTFoot()\n    fun createTBody():
HTMLTableSectionElement\n    fun insertRow(index: Int = definedExternally): HTMLTableRowElement\n    fun
deleteRow(index: Int)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:

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Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to
Kotlin\n */\npublic external abstract class HTMLTableCaptionElement : HTMLElement {\n    open var align:
String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin\n
*/\npublic external abstract class HTMLTableColElement : HTMLElement {\n    open var span: Int\n    open var
align: String\n    open var ch: String\n    open var chOff:
String\n    open var vAlign: String\n    open var width: String\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to
Kotlin\n */\npublic
external abstract class HTMLTableSectionElement : HTMLElement {\n    open val rows: HTMLCollection\n
open var align: String\n    open var ch: String\n    open var chOff: String\n    open var vAlign: String\n
fun
insertRow(index: Int = definedExternally): HTMLElement\n    fun deleteRow(index: Int)\n\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript
[HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin\n
*/\npublic external abstract class HTMLTableRowElement : HTMLElement {\n    open val rowIndex: Int\n    open

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val sectionRowIndex: Int\n  open val cells: HTMLCollection\n  open var align: String\n  open var ch: String\n
open var chOff: String\n  open var vAlign: String\n  open var bgColor: String\n  fun insertCell(index: Int =
definedExternally): HTMLCollection\n  fun deleteCell(index: Int)\n\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val
DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val
NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes
the JavaScript [HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement)
to Kotlin\n */\n\npublic external abstract class HTMLTableCellElement : HTMLElement {\n  open var colSpan:
Int\n  open var rowspan: Int\n  open var headers: String\n  open val cellIndex: Int\n  open var scope: String\n
open var abbr: String\n  open var align: String\n  open var axis: String\n  open var height: String\n  open var
width: String\n  open var ch: String\n  open var chOff: String\n  open var noWrap: Boolean\n  open
var vAlign: String\n  open var bgColor: String\n\n  companion object {\n    val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin\n */\n\npublic
external abstract class HTMLFormElement
: HTMLElement {\n  open var acceptCharset: String\n  open var action: String\n  open var autocomplete:
String\n  open var enctype: String\n  open var encoding: String\n  open var method: String\n  open var name:
String\n  open var noValidate: Boolean\n  open var target: String\n  open val elements:
HTMLFormControlsCollection\n  open val length: Int\n  fun submit()\n  fun reset()\n  fun checkValidity():
Boolean\n  fun reportValidity(): Boolean\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED:
Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val
DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLFormElement.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",

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\ "INVISIBLE_MEMBER" )\n @kotlin.internal.InlineOnly\n public inline operator fun
HTMLFormElement.get(name: String): UnionElementOrRadioNodeList? = asDynamic()[name]\n\n /**\n * Exposes
the JavaScript [HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to
Kotlin\n\n */\n public external abstract class HTMLLabelElement : HTMLElement {\n    open val form:
HTMLFormElement?\n    open var htmlFor: String\n    open val control: HTMLFormElement?\n\n    companion object
{\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n\n    /**\n * Exposes the JavaScript
[HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin\n\n */\n
public external abstract class HTMLInputElement : HTMLFormElement {\n    open var accept: String\n    open
var alt: String\n    open
var autocomplete: String\n    open var autofocus: Boolean\n    open var defaultChecked: Boolean\n    open
var checked: Boolean\n    open var dirName: String\n    open var disabled: Boolean\n    open val form:
HTMLFormElement?\n    open val files: FileList?\n    open var formAction: String\n    open var formEnctype:
String\n    open var formMethod: String\n    open var formNoValidate: Boolean\n    open var formTarget:
String\n    open var height: Int\n    open var indeterminate: Boolean\n    open var inputMode: String\n    open
val list:
HTMLFormElement?\n    open var max: String\n    open var maxLength: Int\n    open var min: String\n    open
var minLength: Int\n    open var multiple: Boolean\n    open var name: String\n    open var pattern:
String\n    open var placeholder: String\n    open var readOnly: Boolean\n    open var required: Boolean\n
    open var size: Int\n    open
var src: String\n    open var step: String\n    open var type: String\n    open var defaultValue: String\n
    open var value: String\n    open var valueAsDate: dynamic\n    open var valueAsNumber: Double\n    open
var width: Int\n    open val willValidate: Boolean\n    open val validity: ValidityState\n    open val
validationMessage:
String\n    open val labels: NodeList\n    open var selectionStart: Int?\n    open var selectionEnd:
Int?\n    open var
selectionDirection: String?\n    open var align: String\n    open var useMap: String\n    fun stepUp(n:
Int =
definedExternally)\n    fun stepDown(n: Int = definedExternally)\n    fun checkValidity(): Boolean\n    fun
reportValidity(): Boolean\n    fun setCustomValidity(error: String)\n    fun select()\n    fun
setRangeText(replacement: String)\n    fun setRangeText(replacement: String, start: Int, end: Int,
selectionMode:
SelectionMode = definedExternally)\n    fun setSelectionRange(start: Int, end: Int, direction: String =
definedExternally)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n\n    /**\n * Exposes the JavaScript
[HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to Kotlin\n\n */\n
public external abstract class HTMLButtonElement : HTMLFormElement {\n    open var autofocus: Boolean\n
    open var disabled: Boolean\n    open val form: HTMLFormElement?\n    open var formAction:

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String\n open var formEnctype: String\n open var formMethod: String\n open var formNoValidate: Boolean\n
open var formTarget: String\n open var name: String\n open var type: String\n open var value: String\n
open var menu: HTMLMenuElement?\n open val willValidate: Boolean\n open val validity: ValidityState\n
open val validationMessage: String\n open val labels: NodeList\n fun checkValidity(): Boolean\n fun
reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n
val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING:
Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val
DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } }\n\n/**\n * Exposes the
JavaScript [HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to
Kotlin\n */\n\npublic external abstract class HTMLSelectElement : HTMLInputElement, ItemArrayLike<Element> {\n
open var autocomplete: String\n open var autofocus: Boolean\n open var disabled: Boolean\n open val form:
HTMLFormElement?\n open var multiple: Boolean\n open var name: String\n open var required: Boolean\n
open var size: Int\n open val type: String\n open val options: HTMLOptionsCollection\n override var length:
Int\n open val selectedOptions: HTMLCollection\n open var selectedIndex: Int\n open var value: String\n
open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n
open val labels: NodeList\n fun namedItem(name: String): HTMLOptionElement?\n fun add(element:
UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)\n fun
remove(index: Int)\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun
setCustomValidity(error: String)\n override fun item(index: Int): Element?\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING:
Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val
DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLSelectElement.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLSelectElement.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n *
Exposes the JavaScript
[HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin\n
*/\n\npublic external abstract class HTMLDataListElement : HTMLInputElement {\n open val options:
HTMLCollection\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n
val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val

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PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin\n
*\npublic external abstract class HTMLOptGroupElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n    open var disabled: Boolean\n    open var label:
String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin\n
*\npublic external abstract class HTMLOptionElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement
{\n    open var disabled: Boolean\n    open var form: HTMLFormElement?\n    open var label: String\n    open var
defaultSelected: Boolean\n    open var selected: Boolean\n    open var value: String\n    open var text: String\n
    open val index: Int\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }\n}\n\n/**\n * Exposes the
JavaScript [HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to
Kotlin\n
*\npublic external abstract class HTMLTextAreaElement : HTMLInputElement {\n    open var autocomplete:
String\n    open var autofocus: Boolean\n    open var cols: Int\n    open var dirName: String\n    open var disabled:
Boolean\n    open var form: HTMLFormElement?\n    open var inputMode: String\n    open var maxLength: Int\n
    open var minLength: Int\n    open var name: String\n    open var placeholder: String\n    open var readOnly:
Boolean\n    open var required: Boolean\n    open var rows: Int\n    open var wrap: String\n    open val type: String\n
    open var defaultValue: String\n    open var value: String\n    open val textLength: Int\n    open val willValidate:
Boolean\n    open val validity: ValidityState\n    open val validationMessage: String\n    open val labels: NodeList\n
    open var selectionStart: Int?\n    open var selectionEnd: Int?\n    open var selectionDirection: String?\n    fun
checkValidity(): Boolean\n    fun reportValidity(): Boolean\n    fun setCustomValidity(error: String)\n    fun
select()\n    fun setRangeText(replacement: String)\n    fun setRangeText(replacement: String, start: Int, end: Int,
selectionMode: SelectionMode = definedExternally)\n    fun setSelectionRange(start: Int, end: Int, direction: String

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= definedExternally)\n\n companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n
    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING:
Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val
DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to Kotlin\n
*\npublic external abstract class HTMLKeygenElement : HTMLInputElement {\n    open var autofocus: Boolean\n
open var challenge: String\n    open var disabled: Boolean\n    open val form: HTMLFormElement?\n    open var
keytype: String\n    open var name: String\n    open val type: String\n    open val willValidate: Boolean\n    open val
validity: ValidityState\n    open val validationMessage: String\n    open val labels: NodeList\n    fun checkValidity():
Boolean\n    fun reportValidity(): Boolean\n    fun setCustomValidity(error: String)\n}\n\n companion object {\n
val ELEMENT_NODE: Short\n
    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE:
Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOutputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOutputElement) to Kotlin\n
*\npublic external abstract class HTMLOutputElement : HTMLInputElement {\n    open val htmlFor: DOMTokenList\n
open val form: HTMLFormElement?\n
    open var name: String\n    open val type: String\n    open var defaultValue: String\n    open var value: String\n
open val willValidate: Boolean\n    open val validity: ValidityState\n    open val validationMessage: String\n    open
val labels: NodeList\n    fun checkValidity(): Boolean\n    fun reportValidity(): Boolean\n    fun
setCustomValidity(error: String)\n}\n\n companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS:
Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin\n
*\npublic external abstract class HTMLProgressElement : HTMLInputElement {\n    open var value: Double\n    open
var max: Double\n    open val position: Double\n    open val labels: NodeList\n}\n\n companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:

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Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n
    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING:
Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val
DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin \n
*\npublic external abstract class HTMLMeterElement : HTMLElement { \n    open var value: Double \n    open var min:
Double \n    open var max: Double \n    open var low: Double \n    open var high: Double \n    open var optimum:
Double \n    open val labels: NodeList \n \n    companion object { \n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n
        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes
the JavaScript [HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to
Kotlin \n
*\npublic external abstract class HTMLFieldSetElement : HTMLElement { \n    open var disabled:
Boolean \n    open val form: HTMLFormElement? \n    open var name: String \n    open val type: String \n    open val
elements: HTMLCollection \n    open val willValidate: Boolean \n    open val validity: ValidityState \n    open val
validationMessage: String \n    fun checkValidity(): Boolean \n    fun reportValidity(): Boolean \n    fun
setCustomValidity(error:
String) \n \n    companion object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to Kotlin \n
*\npublic external abstract class HTMLLegendElement
: HTMLElement { \n    open val form: HTMLFormElement? \n    open var align: String \n \n    companion object { \n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript

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[ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\n *\npublic
external abstract class ValidityState {\n open val valueMissing: Boolean\n open val typeMismatch: Boolean\n
open val patternMismatch: Boolean\n open val tooLong: Boolean\n open val tooShort: Boolean\n open val
rangeUnderflow: Boolean\n open val rangeOverflow: Boolean\n open val stepMismatch: Boolean\n open val
badInput: Boolean\n open val customError: Boolean\n open val valid: Boolean\n}\n\n**\n * Exposes the
JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to
Kotlin\n *\npublic external abstract class HTMLDetailsElement : HTMLInputElement {\n open var open: Boolean\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE:
Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val
DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external
abstract class HTMLMenuElement : HTMLInputElement {\n open var type: String\n open var label: String\n open
var compact: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE:
Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external
abstract class HTMLMenuItemElement : HTMLInputElement {\n open var type: String\n open var label: String\n
open var icon: String\n open var disabled: Boolean\n open var checked: Boolean\n open var radiogroup:
String\n open var default: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE:
Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val
DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external
open class RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {\n open val
relatedTarget: EventTarget?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE:
Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface
RelatedEventInit : EventInit {\n var relatedTarget: EventTarget? /* = null */\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic
inline fun RelatedEventInit(relatedTarget: EventTarget? = null, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): RelatedEventInit {\n val o = js("{}")\n o["relatedTarget"] =
relatedTarget\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n

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return o\n}\n\n/**\n * Exposes the JavaScript
[HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin\n
*/\npublic external abstract class HTMLDialogElement : HTMLInputElement {\n    open var open: Boolean\n    open var
returnValue: String\n    fun show(anchor: UnionElementOrMouseEvent = definedExternally)\n    fun
showModal(anchor: UnionElementOrMouseEvent = definedExternally)\n    fun close(returnValue: String =
definedExternally)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin\n
*/\npublic external abstract class HTMLScriptElement : HTMLInputElement, HTMLOrSVGScriptElement {\n    open var src:
String\n    open var type: String\n    open var charset: String\n    open var async: Boolean\n    open var defer:
Boolean\n    open var crossOrigin: String?\n    open var text: String\n    open var nonce: String\n    open var event:
String\n    open var htmlFor: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement)
to Kotlin\n
*/\npublic external abstract class HTMLTemplateElement : HTMLInputElement {\n    open val content:
DocumentFragment\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin\n
*/\npublic external abstract class HTMLSlotElement : HTMLInputElement {\n    open var name: String\n    fun
assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node>\n\n    companion object {\n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val

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DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
AssignedNodesOptions {\n    var flatten: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun AssignedNodesOptions(flatten:
Boolean? = false): AssignedNodesOptions {\n    val o = js(\"({})\")\n    o[\"flatten\"] = flatten\n    return
o\n}\n}\n\n/**\n * Exposes the JavaScript
[HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to Kotlin\n
*/\n\npublic external abstract class HTMLCanvasElement : HTMLElement, CanvasImageSource, TexImageSource
{\n    open var width: Int\n    open var height: Int\n    fun getContext(contextId: String, vararg arguments: Any?):
RenderingContext?\n    fun toDataURL(type: String = definedExternally, quality: Any? = definedExternally):
String\n    fun toBlob(_callback: (Blob?) -> Unit,
    type: String = definedExternally, quality: Any? = definedExternally)\n}\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
CanvasRenderingContext2DSettings {\n    var alpha: Boolean? /* = true */\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
CanvasRenderingContext2DSettings(alpha: Boolean? = true): CanvasRenderingContext2DSettings {\n    val o =
js(\"({})\")\n    o[\"alpha\"] = alpha\n    return o\n}\n}\n\n/**\n * Exposes the JavaScript
[CanvasRenderingContext2D](https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D) to
Kotlin\n */\n\npublic external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform,
CanvasCompositing, CanvasImageSmoothing, CanvasFillStrokeStyles, CanvasShadowStyles, CanvasFilters,
CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage, CanvasHitRegion,
CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath, RenderingContext {\n
    open val canvas: HTMLCanvasElement\n}\n\npublic external interface CanvasState {\n    fun save()\n    fun
restore()\n}\n\npublic external interface CanvasTransform
{\n    fun scale(x: Double, y: Double)\n    fun rotate(angle: Double)\n    fun translate(x: Double, y: Double)\n
    fun transform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double)\n    fun getTransform():
DOMMatrix\n    fun setTransform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double)\n    fun
setTransform(transform: dynamic = definedExternally)\n    fun resetTransform()\n}\n\npublic external interface
CanvasCompositing {\n    var globalAlpha: Double\n    var globalCompositeOperation: String\n}\n\npublic external
interface CanvasImageSmoothing {\n    var imageSmoothingEnabled: Boolean\n    var imageSmoothingQuality:
ImageSmoothingQuality\n}\n\npublic external interface CanvasFillStrokeStyles {\n    var strokeStyle: dynamic\n
get() = definedExternally\n    set(value) = definedExternally\n    var fillStyle: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n    fun createLinearGradient(x0: Double, y0: Double,
x1: Double, y1: Double): CanvasGradient\n    fun createRadialGradient(x0: Double, y0: Double, r0: Double, x1:
Double, y1: Double, r1: Double): CanvasGradient\n    fun createPattern(image: CanvasImageSource, repetition:

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String): CanvasPattern?}\n\npublic external interface CanvasShadowStyles {\n    var shadowOffsetX: Double\n    var shadowOffsetY: Double\n    var shadowBlur: Double\n    var shadowColor: String}\n\npublic external interface CanvasFilters {\n    var filter: String}\n\npublic external interface CanvasRect {\n    fun clearRect(x: Double, y: Double, w: Double, h: Double)\n    fun fillRect(x: Double, y: Double, w: Double, h: Double)\n    fun strokeRect(x: Double, y: Double, w: Double, h: Double)\n\npublic external interface CanvasDrawPath {\n    fun beginPath()\n    fun fill(fillRule: CanvasFillRule = definedExternally)\n    fun fill(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n    fun stroke()\n    fun stroke(path: Path2D)\n    fun clip(fillRule: CanvasFillRule = definedExternally)\n    fun clip(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n    fun resetClip()\n    fun isPointInPath(x: Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n    fun isPointInPath(path: Path2D, x: Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n    fun isPointInStroke(x: Double, y: Double): Boolean\n    fun isPointInStroke(path: Path2D, x: Double, y: Double): Boolean}\n\npublic external interface CanvasUserInterface {\n    fun drawFocusIfNeeded(element: Element)\n    fun drawFocusIfNeeded(path: Path2D, element: Element)\n    fun scrollPathIntoView()\n    fun scrollPathIntoView(path: Path2D)\n\npublic external interface CanvasText {\n    fun fillText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)\n    fun strokeText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)\n    fun measureText(text: String): TextMetrics}\n\npublic external interface CanvasDrawImage {\n    fun drawImage(image: CanvasImageSource, dx: Double, dy: Double)\n    fun drawImage(image: CanvasImageSource, dx: Double, dy: Double, dw: Double, dh: Double)\n    fun drawImage(image: CanvasImageSource, sx: Double, sy: Double, sw: Double, sh: Double, dx: Double, dy: Double, dw: Double, dh: Double)\n\npublic external interface CanvasHitRegion {\n    fun addHitRegion(options: HitRegionOptions = definedExternally)\n    fun removeHitRegion(id: String)\n    fun clearHitRegions()\n\npublic external interface CanvasImageData {\n    fun createImageData(sw: Double, sh: Double): ImageData\n    fun createImageData(imagedata: ImageData): ImageData\n    fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double): ImageData\n    fun putImageData(imagedata: ImageData, dx: Double, dy: Double)\n    fun putImageData(imagedata: ImageData, dx: Double, dy: Double, dirtyX: Double, dirtyY: Double, dirtyWidth: Double, dirtyHeight: Double)\n\npublic external interface CanvasPathDrawingStyles {\n    var lineWidth: Double\n    var lineCap: CanvasLineCap\n    var lineJoin: CanvasLineJoin\n    var miterLimit: Double\n    var lineDashOffset: Double\n    fun setLineDash(segments: Array<Double>)\n    fun getLineDash(): Array<Double>}\n\npublic external interface CanvasTextDrawingStyles {\n    var font: String\n    var textAlign: CanvasTextAlign\n    var textBaseline: CanvasTextBaseline\n    var direction: CanvasDirection}\n\npublic external interface CanvasPath {\n    fun closePath()\n    fun moveTo(x: Double, y: Double)\n    fun lineTo(x: Double, y: Double)\n    fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n    fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n    fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n    fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n    fun rect(x: Double, y: Double, w: Double, h: Double)\n    fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean = definedExternally)\n    fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean = definedExternally)\n}\n\n/*\n * Exposes the JavaScript [CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\n */\npublic external abstract class CanvasGradient {\n    fun addColorStop(offset: Double, color: String)\n}\n\n/*\n * Exposes the JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin\n */\npublic external abstract class CanvasPattern {\n    fun setTransform(transform: dynamic = definedExternally)\n}\n\n/*\n * Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin\n */\npublic external abstract class TextMetrics {\n    open val width: Double\n    open val actualBoundingBoxLeft: Double\n    open val actualBoundingBoxRight: Double\n    open val fontBoundingBoxAscent: Double\n    open val fontBoundingBoxDescent: Double\n    open val

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actualBoundingBoxAscent: Double\n    open val actualBoundingBoxDescent: Double\n    open val
emHeightAscent: Double\n    open val emHeightDescent: Double\n    open val hangingBaseline: Double\n    open
val alphabeticBaseline: Double\n    open val ideographicBaseline: Double\n}\n\npublic external interface
HitRegionOptions {\n    var path: Path2D? /* = null */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var fillRule: CanvasFillRule? /* = CanvasFillRule.NONZERO */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var id: String? /* = "" */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var parentID: String? /* = null */\n        get() =
definedExternally\n        set(value) = definedExternally\n
    var cursor: String? /* = "inherit" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var
control: Element? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var label:
String? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var role: String? /* =
null */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress("\INVISIBLE_REFERENCE",
"\INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun HitRegionOptions(path: Path2D? =
null, fillRule: CanvasFillRule? = CanvasFillRule.NONZERO, id: String? = "", parentID: String? = null, cursor:
String? = "inherit", control: Element? = null, label: String? = null, role: String? = null): HitRegionOptions {\n    val
o = js("{}")\n    o["path"] = path\n    o["fillRule"] = fillRule\n    o["id"] = id\n    o["parentID"] = parentID\n
o["cursor"] = cursor\n    o["control"]
= control\n    o["label"] = label\n    o["role"] = role\n    return o}\n\n/**\n * Exposes the JavaScript
[ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin\n */\n\npublic external open class
ImageData : ImageBitmapSource, TexImageSource {\n    constructor(sw: Int, sh: Int)\n    constructor(data:
Uint8ClampedArray, sw: Int, sh: Int = definedExternally)\n    open val width: Int\n    open val height: Int\n    open
val data: Uint8ClampedArray\n}\n\n/**\n * Exposes the JavaScript
[Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin\n */\n\npublic external open class
Path2D() : CanvasPath {\n    constructor(path: Path2D)\n    constructor(paths: Array<Path2D>, fillRule:
CanvasFillRule = definedExternally)\n    constructor(d: String)\n    fun addPath(path: Path2D, transform: dynamic =
definedExternally)\n    override fun closePath()\n    override fun moveTo(x: Double, y: Double)\n    override fun
lineTo(x: Double, y: Double)\n    override
fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n    override fun bezierCurveTo(cp1x:
Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n    override fun arcTo(x1: Double, y1:
Double, x2: Double, y2: Double, radius: Double)\n    override fun arcTo(x1: Double, y1: Double, x2: Double, y2:
Double, radiusX: Double, radiusY: Double, rotation: Double)\n    override fun rect(x: Double, y: Double, w: Double,
h: Double)\n    override fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double,
anticlockwise: Boolean /* = definedExternally */) \n    override fun ellipse(x: Double, y: Double, radiusX: Double,
radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* =
definedExternally */) \n}\n\n/**\n * Exposes the JavaScript
[ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext)
to Kotlin\n */\n\npublic external abstract class ImageBitmapRenderingContext
{\n    open val canvas: HTMLCanvasElement\n    fun transferFromImageBitmap(bitmap:
ImageBitmap?)\n}\n\npublic external interface ImageBitmapRenderingContextSettings {\n    var alpha: Boolean? /*
= true */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress("\INVISIBLE_REFERENCE",
"\INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {\n    val o
= js("{}")\n    o["alpha"] = alpha\n    return o}\n\n/**\n * Exposes the JavaScript
[CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin\n */\n\npublic external abstract class CustomElementRegistry {\n    fun define(name: String, constructor: () -> dynamic,
options: ElementDefinitionOptions = definedExternally)\n    fun get(name: String): Any?\n    fun

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whenDefined(name: String): Promise<Unit>\n\n\npublic external interface
ElementDefinitionOptions {\n  var extends: String?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ElementDefinitionOptions(extends:
String? = undefined): ElementDefinitionOptions {\n  val o = js(\"({})\")\n  o[\"extends\"] = extends\n  return
o\n}\n\n\npublic external interface ElementContentEditable {\n  var contentEditable: String\n  val
isContentEditable: Boolean\n}\n\n\n/**\n * Exposes the JavaScript
[DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin\n */\npublic external
abstract class DataTransfer {\n  open var dropEffect: String\n  open var effectAllowed: String\n  open val items:
DataTransferItemList\n  open val types: Array<out String>\n  open val files: FileList\n  fun
setDragImage(image: Element, x: Int, y: Int)\n  fun getData(format: String): String\n  fun setData(format: String,
data: String)\n  fun clearData(format: String = definedExternally)\n}\n\n\n/**\n * Exposes the JavaScript
[DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin\n */\npublic
external abstract class DataTransferItemList {\n  open val length: Int\n  fun add(data: String, type: String):
DataTransferItem?\n  fun add(data: File): DataTransferItem?\n  fun remove(index: Int)\n  fun
clear()\n}\n\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
DataTransferItemList.get(index: Int): DataTransferItem? = asDynamic()[index]\n\n\n/**\n * Exposes the JavaScript
[DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin\n */\npublic
external abstract class DataTransferItem {\n  open val kind: String\n  open val type: String\n  fun
getAsString(_callback: ((String) -> Unit)?)\n  fun getAsFile(): File?\n}\n\n\n/**\n * Exposes the JavaScript
[DragEvent](https://developer.mozilla.org/en/docs/Web/API/TouchEvent)
to Kotlin\n */\npublic external open class DragEvent(type: String, eventInitDict: DragEventInit =
definedExternally) : MouseEvent {\n  open val dataTransfer: DataTransfer?\n\n  companion object {\n    val
NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\n\npublic external interface DragEventInit : MouseEventInit {\n  var
dataTransfer: DataTransfer? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun DragEventInit(dataTransfer:
DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0,
buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey:
Boolean? = false, altKey: Boolean? =
false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false,
modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false,
modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false,
modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): DragEventInit {\n  val o =
js(\"({})\")\n  o[\"dataTransfer\"] = dataTransfer\n  o[\"screenX\"] = screenX\n  o[\"screenY\"] = screenY\n
o[\"clientX\"] = clientX\n  o[\"clientY\"] = clientY\n  o[\"button\"] = button\n  o[\"buttons\"] = buttons\n
o[\"relatedTarget\"] = relatedTarget\n  o[\"region\"] = region\n  o[\"ctrlKey\"] = ctrlKey\n  o[\"shiftKey\"] =
shiftKey\n  o[\"altKey\"] = altKey\n  o[\"metaKey\"] = metaKey\n  o[\"modifierAltGraph\"] =
modifierAltGraph\n
o[\"modifierCapsLock\"] = modifierCapsLock\n  o[\"modifierFn\"] = modifierFn\n  o[\"modifierFnLock\"] =
modifierFnLock\n  o[\"modifierHyper\"] = modifierHyper\n  o[\"modifierNumLock\"] = modifierNumLock\n
o[\"modifierScrollLock\"] = modifierScrollLock\n  o[\"modifierSuper\"] = modifierSuper\n
o[\"modifierSymbol\"] = modifierSymbol\n  o[\"modifierSymbolLock\"] = modifierSymbolLock\n  o[\"view\"] =
view\n  o[\"detail\"] = detail\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n  o[\"composed\"] =
composed\n  return o\n}\n\n\n/**\n * Exposes the JavaScript

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[Window](https://developer.mozilla.org/en/docs/Web/API/Window) to Kotlin\n *^\\npublic external abstract class
Window : EventTarget, GlobalEventHandlers, WindowEventHandlers, WindowOrWorkerGlobalScope,
WindowSessionStorage, WindowLocalStorage, GlobalPerformance, UnionMessagePortOrWindowProxy {\n open
val window: Window\n open val self: Window\n open val document: Document\n
open var name: String\n open val location: Location\n open val history: History\n open val customElements:
CustomElementRegistry\n open val locationbar: BarProp\n open val menubar: BarProp\n open val
personalbar: BarProp\n open val scrollbars: BarProp\n open val statusbar: BarProp\n open val toolbar:
BarProp\n open var status: String\n open val closed: Boolean\n open val frames: Window\n open val length:
Int\n open val top: Window\n open var opener: Any?\n open val parent: Window\n open val frameElement:
Element?\n open val navigator: Navigator\n open val applicationCache: ApplicationCache\n open val external:
External\n open val screen: Screen\n open val innerWidth: Int\n open val innerHeight: Int\n open val scrollX:
Double\n open val pageXOffset: Double\n open val scrollY: Double\n open val pageYOffset: Double\n open
val screenX: Int\n open val screenY: Int\n open val outerWidth: Int\n open val
outerHeight: Int\n open val devicePixelRatio: Double\n fun close()\n fun stop()\n fun focus()\n fun blur()\n
fun open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally):
Window?\n fun alert()\n fun alert(message: String)\n fun confirm(message: String = definedExternally):
Boolean\n fun prompt(message: String = definedExternally, default: String = definedExternally): String?\n fun
print()\n fun requestAnimationFrame(callback: (Double) -> Unit): Int\n fun cancelAnimationFrame(handle:
Int)\n fun postMessage(message: Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally)\n
fun captureEvents()\n fun releaseEvents()\n fun matchMedia(query: String): MediaQueryList\n fun moveTo(x:
Int, y: Int)\n fun moveBy(x: Int, y: Int)\n fun resizeTo(x: Int, y: Int)\n fun resizeBy(x: Int, y: Int)\n fun
scroll(options: ScrollToOptions = definedExternally)\n fun scroll(x:
Double, y: Double)\n fun scrollTo(options: ScrollToOptions = definedExternally)\n fun scrollTo(x: Double, y:
Double)\n fun scrollBy(options: ScrollToOptions = definedExternally)\n fun scrollBy(x: Double, y: Double)\n
fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally):
CSSStyleDeclaration}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Window.get(name: String):
dynamic = asDynamic()[name]\n\npublic external abstract class BarProp {\n open val visible: Boolean}\n\n/**\n
* Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin\n *^\\npublic
external abstract class History {\n open val length: Int\n open var scrollRestoration: ScrollRestoration\n open
val state: Any?\n fun go(delta: Int = definedExternally)\n fun back()\n fun forward()\n fun pushState(data:
Any?, title: String, url: String? = definedExternally)\n
fun replaceState(data: Any?, title: String, url: String? = definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin\n *^\\npublic external abstract class
Location {\n open var href: String\n open val origin: String\n open var protocol: String\n open var host:
String\n open var hostname: String\n open var port: String\n open var pathname: String\n open var search:
String\n open var hash: String\n open val ancestorOrigins: Array<out String>\n fun assign(url: String)\n fun
replace(url: String)\n fun reload()\n}\n\n/**\n * Exposes the JavaScript
[PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin\n *^\\npublic external
open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {\n open val
state: Any?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n
val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface
PopStateEventInit : EventInit {\n var state: Any? /* = null */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PopStateEventInit(state: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PopStateEventInit {\n val o
= js(\"({})\")\n o[\"state\"] = state\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript

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[HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin\n *^npublic
external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) :
Event {\n  open val oldURL: String\n  open val newURL: String\n\n  companion object
  {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n\n  public external interface HashChangeEventInit : EventInit {\n    var
oldURL: String? /* = \"\" */\n    get() = definedExternally\n    set(value) = definedExternally\n    var newURL:
String? /* = \"\" */\n    get() = definedExternally\n    set(value) =
definedExternally\n  }\n\n  @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n  @kotlin.internal.InlineOnly\n  public inline fun HashChangeEventInit(oldURL:
String? = \"\", newURL: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): HashChangeEventInit {\n    val o = js(\"({})\")\n    o[\"oldURL\"] = oldURL\n    o[\"newURL\"]
= newURL\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n
return o\n}\n\n/**\n * Exposes the JavaScript
[PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent)
to Kotlin\n *^npublic external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit
= definedExternally) : Event {\n  open val persisted: Boolean\n\n  companion object {\n    val NONE: Short\n
    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
  }\n\n  public external interface PageTransitionEventInit : EventInit {\n    var persisted: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n  }\n\n  @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n  @kotlin.internal.InlineOnly\n  public inline fun PageTransitionEventInit(persisted:
Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
PageTransitionEventInit {\n    val o = js(\"({})\")\n    o[\"persisted\"] = persisted\n    o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n
return o\n}\n\n/**\n * Exposes the JavaScript
[BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent) to Kotlin\n *^npublic
external open class BeforeUnloadEvent : Event {\n  var returnValue: String\n\n  companion object {\n    val
NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n\n  public external abstract class ApplicationCache : EventTarget {\n    open
val status: Short\n    open var onchecking: ((Event) -> dynamic)?\n    open var onerror: ((Event) -> dynamic)?\n
open var onnoupdate: ((Event) -> dynamic)?\n    open var ondownloading: ((Event) -> dynamic)?\n    open var
onprogress: ((ProgressEvent) -> dynamic)?\n    open var onupdateready: ((Event) -> dynamic)?\n    open var
oncached: ((Event) -> dynamic)?\n    open var onobsolete: ((Event) -> dynamic)?\n    fun update()\n    fun abort()\n
fun swapCache()\n\n    companion object {\n      val UNCACHED: Short\n
      val IDLE: Short\n      val CHECKING: Short\n      val DOWNLOADING: Short\n      val UPDATEREADY:
Short\n      val OBSOLETE: Short\n    }\n  }\n\n  /**\n * Exposes the JavaScript
[NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin\n *^npublic
external interface NavigatorOnLine {\n  val onLine: Boolean\n}\n\n/**\n * Exposes the JavaScript
[ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin\n *^npublic external open class
ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {\n  open val message: String\n
open val filename: String\n  open val lineno: Int\n  open val colno: Int\n  open val error: Any?\n\n  companion
object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n\n  public external interface ErrorEventInit : EventInit {\n    var message:
String? /* = \"\" */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var filename: String? /* = \"\" */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var lineno: Int? /* = 0 */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var colno: Int? /* = 0 */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var error: Any? /* = null */\n    get() =
definedExternally\n    set(value) = definedExternally\n  }\n\n  @Suppress(\"INVISIBLE_REFERENCE\",

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\INVISIBLE_MEMBER\)\n@kotlin.internal.InlineOnly\npublic inline fun ErrorEventInit(message: String? = \\",
filename: String? = \\", lineno: Int? = 0, colno: Int? = 0, error: Any? = null, bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean? = false): ErrorEventInit {\n    val o = js(\"({})\")\n    o[\"message\"] =
message\n    o[\"filename\"] = filename\n    o[\"lineno\"] = lineno\n    o[\"colno\"] = colno\n    o[\"error\"] = error\n
    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return
o\n}\n\n/**\n * Exposes the JavaScript
[PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin\n
*/\npublic external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) :
Event {\n    open val promise: Promise<Any?>\n    open val reason: Any?\n\n    companion object {\n        val
NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface PromiseRejectionEventInit : EventInit {\n    var
promise: Promise<Any?>?\n    var reason: Any?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\INVISIBLE_MEMBER\)\n@kotlin.internal.InlineOnly\npublic inline fun PromiseRejectionEventInit(promise:
Promise<Any?>?, reason: Any? = undefined, bubbles: Boolean?
= false, cancelable: Boolean? = false, composed: Boolean? = false): PromiseRejectionEventInit {\n    val o =
js(\"({})\")\n    o[\"promise\"] = promise\n    o[\"reason\"] = reason\n    o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin\n
*/\npublic external interface GlobalEventHandlers {\n    var onabort: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onblur: ((FocusEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var oncancel: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var oncanplay: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var oncanplaythrough: ((Event) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onchange: ((Event) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onclick: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onclose: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var oncontextmenu: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var oncuechange: ((Event) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var ondblclick: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var ondrag: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var ondragend: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n
    set(value) = definedExternally\n    var ondragenter: ((DragEvent) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var ondragexit: ((DragEvent) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var ondragleave: ((DragEvent) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var ondragover: ((DragEvent) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var ondragstart: ((DragEvent) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var ondrop: ((DragEvent) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var ondurationchange: ((Event) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var onemptied: ((Event) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n
    var onended: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onfocus: ((FocusEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var oninput: ((InputEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var oninvalid: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onkeydown: ((KeyboardEvent) -> dynamic)?\n    get() = definedExternally\n

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set(value) = definedExternally\n  var onkeypress: ((KeyboardEvent) -> dynamic)?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var onkeyup: ((KeyboardEvent) -> dynamic)?\n
get() = definedExternally\n  set(value) = definedExternally\n  var
onload: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var
onloadeddata: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var
onloadedmetadata: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n
var onloadend: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var
onloadstart: ((ProgressEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n
var onmousedown: ((MouseEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var onmouseenter: ((MouseEvent) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onmouseleave: ((MouseEvent) -> dynamic)?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var onmousemove: ((MouseEvent)
-> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var onmouseout:
((MouseEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var
onmouseover: ((MouseEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n
var onmouseup: ((MouseEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var onwheel: ((WheelEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var onpause: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var onplay: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var onplaying: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var onprogress: ((ProgressEvent) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onratechange: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onreset: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onresize: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onscroll: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onseeked: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onseeking: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onselect: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onshow: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onstalled:
((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var onsubmit:
((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var onsuspend:
((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var ontimeupdate:
((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var ontoggle:
((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var
onvolumechange: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n
var onwaiting: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var onlostpointercapture: ((PointerEvent) -> dynamic)?\n
get() = definedExternally\n  set(value) = definedExternally\n  var onpointerdown: ((PointerEvent) ->
dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var onpointermove:
((PointerEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n  var
onpointerup: ((PointerEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n
var onpointercancel: ((PointerEvent) -> dynamic)?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var onpointerover: ((PointerEvent) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onpointerout: ((PointerEvent) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  var onpointerenter: ((PointerEvent) -> dynamic)?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var onpointerleave: ((PointerEvent)

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-> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n}\n\n/**\n * Exposes the JavaScript [WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin\n */\npublic external interface WindowEventHandlers {\n    var onafterprint: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onbeforeprint: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onbeforeunload: ((BeforeUnloadEvent) -> String)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onhashchange: ((HashChangeEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onlanguagechange: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onmessage: ((MessageEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onoffline: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var ononline: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onpagehide: ((PageTransitionEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onpageshow: ((PageTransitionEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onpopstate: ((PopStateEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onrejectionhandled: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onstorage: ((StorageEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onunload: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n}\n\npublic external interface DocumentAndElementEventHandlers {\n    var oncopy: ((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var oncut: ((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onpaste: ((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n}\n\n/**\n * Exposes the JavaScript [WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope) to Kotlin\n */\npublic external interface WindowOrWorkerGlobalScope {\n    val origin: String\n    val caches: CacheStorage\n    fun btoa(data: String): String\n    fun atob(data: String): String\n    fun setTimeout(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n    fun clearTimeout(handle: Int = definedExternally)\n    fun setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n    fun clearInterval(handle: Int = definedExternally)\n    fun createImageBitmap(image: ImageBitmapSource, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n    fun createImageBitmap(image: ImageBitmapSource, sx: Int, sy: Int, sw: Int, sh: Int, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n    fun fetch(input: dynamic, init: RequestInit = definedExternally): Promise<Response>\n}\n\n/**\n * Exposes the JavaScript [Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\n */\npublic external abstract class Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies, NavigatorPlugins, NavigatorConcurrentHardware {\n    open val clipboard: Clipboard\n    open val mediaDevices: MediaDevices\n    open val maxTouchPoints: Int\n    open val serviceWorker: ServiceWorkerContainer\n    fun requestMediaKeySystemAccess(keySystem: String, supportedConfigurations: Array<MediaKeySystemConfiguration>): Promise<MediaKeySystemAccess>\n    fun getUserMedia(constraints: MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit)\n    fun vibrate(pattern: dynamic): Boolean\n}\n\n/**\n * Exposes the JavaScript [NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\n */\npublic external interface NavigatorID {\n    val appName: String\n    val appCodeName: String\n    val appVersion: String\n    val platform: String\n    val product: String\n    val productSub: String\n    val userAgent: String\n    val vendor: String\n    val vendorSub: String\n    val oscpu: String\n    fun taintEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript [NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage)

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to Kotlin\n *\npublic external interface NavigatorLanguage {\n  val language: String\n  val languages:
Array<out String>\n}\n\npublic external interface NavigatorContentUtils {\n  fun registerProtocolHandler(scheme:
String, url: String, title: String)\n  fun registerContentHandler(mimeType: String, url: String, title: String)\n  fun
isProtocolHandlerRegistered(scheme: String, url: String): String\n  fun isContentHandlerRegistered(mimeType:
String, url: String): String\n  fun unregisterProtocolHandler(scheme: String, url: String)\n  fun
unregisterContentHandler(mimeType: String, url: String)\n}\n\npublic external interface NavigatorCookies {\n  val
cookieEnabled: Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin\n *\npublic
external interface NavigatorPlugins {\n  val plugins: PluginArray\n  val mimeTypes: MimeTypeError\n  fun
javaEnabled(): Boolean\n}\n\n/**\n * Exposes
the JavaScript [PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n *\npublic
external abstract class PluginArray : ItemArrayLike<Plugin> {\n  fun refresh(reload: Boolean =
definedExternally)\n  override fun item(index: Int): Plugin?\n  fun namedItem(name: String):
Plugin?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(index: Int):
Plugin? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(name:
String): Plugin? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\n *\npublic external
abstract class MimeTypeArray : ItemArrayLike<MimeType> {\n  override fun item(index: Int): MimeType?\n
fun namedItem(name: String): MimeType?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(index:
Int): MimeType? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(name:
String): MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin\n *\npublic external abstract class Plugin
: ItemArrayLike<MimeType> {\n  open val name: String\n  open val description: String\n  open val filename:
String\n  override fun item(index: Int): MimeType?\n  fun namedItem(name: String):
MimeType?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(index: Int):
MimeType? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(name: String):
MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin\n *\npublic external abstract
class MimeType {\n  open val type: String\n  open val description: String\n  open val suffixes: String\n  open
val enabledPlugin: Plugin\n}\n\n/**\n * Exposes the JavaScript
[ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\n *\npublic external
abstract class ImageBitmap : CanvasImageSource, TexImageSource {\n  open val width: Int\n  open val height:
Int\n  fun close()\n}\n\npublic external interface ImageBitmapOptions {\n  var imageOrientation:
ImageOrientation? /* = ImageOrientation.NONE */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var colorSpaceConversion: ColorSpaceConversion?
/* = ColorSpaceConversion.DEFAULT */\n  get() = definedExternally\n  set(value) = definedExternally\n
var resizeMode: Int?\n  get() = definedExternally\n  set(value) = definedExternally\n  var resizeMode:
Int?\n  get() = definedExternally\n  set(value) = definedExternally\n  var resizeMode: Int?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var resizeMode: Int?\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun

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ImageBitmapOptions(imageOrientation: ImageOrientation? = ImageOrientation.NONE, premultiplyAlpha:
PremultiplyAlpha? = PremultiplyAlpha.DEFAULT, colorSpaceConversion: ColorSpaceConversion? =
ColorSpaceConversion.DEFAULT, resizeMode: Int? = undefined, resizeMode: Int? = undefined, resizeMode:
ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions {\n  val o = js("{}")\n  o["imageOrientation"]
= imageOrientation\n
  o["premultiplyAlpha"] = premultiplyAlpha\n  o["colorSpaceConversion"] = colorSpaceConversion\n
o["resizeWidth"] = resizeMode\n  o["resizeHeight"] = resizeMode\n  o["resizeQuality"] = resizeMode\n
return o}\n\n/**\n * Exposes the JavaScript
[MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin\n */\npublic external open
class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {\n  open val data:
Any?\n  open val origin: String\n  open val lastEventId: String\n  open val source:
UnionMessagePortOrWindowProxy?\n  open val ports: Array<out MessagePort>\n  fun initMessageEvent(type:
String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source:
UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>)\n\n  companion object {\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n  }\n\n  public external interface MessageEventInit : EventInit {\n    var data: Any? /* = null */\n
get() = definedExternally\n    set(value) = definedExternally\n    var origin: String? /* = "" */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var lastEventId: String? /* = "" */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var source: UnionMessagePortOrWindowProxy? /* =
null */\n    get() = definedExternally\n    set(value) = definedExternally\n    var ports: Array<MessagePort>? /*
= arrayOf() */\n    get() = definedExternally\n    set(value) =
definedExternally\n  }\n\n  @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n  @kotlin.internal.InlineOnly\n  public inline fun MessageEventInit(data: Any? = null,
origin: String? = "", lastEventId: String? = "", source: UnionMessagePortOrWindowProxy? = null, ports:
Array<MessagePort>? = arrayOf(), bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): MessageEventInit {\n    val o = js("{}")\n
o["data"] = data\n  o["origin"] = origin\n  o["lastEventId"] = lastEventId\n  o["source"] = source\n
o["ports"] = ports\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] =
composed\n  return o}\n\n  /**\n   * Exposes the JavaScript
[EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin\n */\npublic external open
class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {\n  open
val url: String\n  open val withCredentials: Boolean\n  open val readyState: Short\n  var onopen: ((Event) ->
dynamic)?\n  var onmessage: ((MessageEvent) -> dynamic)?\n  var onerror: ((Event) -> dynamic)?\n  fun
close()\n\n  companion object {\n    val CONNECTING: Short\n    val OPEN: Short\n    val CLOSED:
Short\n  }\n\n  public external interface
EventSourceInit {\n    var withCredentials: Boolean? /* = false */\n    get() = definedExternally\n    set(value)
= definedExternally\n  }\n\n  @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n  @kotlin.internal.InlineOnly\n  public inline fun EventSourceInit(withCredentials:
Boolean? = false): EventSourceInit {\n    val o = js("{}")\n    o["withCredentials"] = withCredentials\n    return
o}\n\n  /**\n   * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to
Kotlin\n */\npublic external open class WebSocket(url: String, protocols: dynamic = definedExternally) :
EventTarget {\n  open val url: String\n  open val readyState: Short\n  open val bufferedAmount: Number\n  var
onopen: ((Event) -> dynamic)?\n  var onerror: ((Event) -> dynamic)?\n  var onclose: ((Event) -> dynamic)?\n
open val extensions: String\n  open val protocol: String\n  var onmessage: ((MessageEvent) -> dynamic)?\n  var
binaryType: BinaryType\n
  fun close(code: Short = definedExternally, reason: String = definedExternally)\n  fun send(data: String)\n  fun
send(data: Blob)\n  fun send(data: ArrayBuffer)\n  fun send(data: ArrayBufferView)\n\n  companion object {\n
val CONNECTING: Short\n    val OPEN: Short\n    val CLOSING: Short\n    val CLOSED: Short\n

```

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}
}

Exposes the JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin
public external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) :
Event {
    open val wasClean: Boolean
    open val code: Short
    open val reason: String
    companion
object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}
}

public external interface CloseEventInit : EventInit {
    var wasClean: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
    var code: Short? /* = 0 */
    get() = definedExternally
    set(value) = definedExternally
    var reason: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun CloseEventInit(wasClean: Boolean? = false, code: Short? = 0, reason: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CloseEventInit {
    val o = js("{}")
    o["wasClean"] = wasClean
    o["code"] = code
    o["reason"] = reason
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

Exposes the JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin
public external open class MessageChannel {
    open val port1: MessagePort
    open val port2: MessagePort
}

Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin
public external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy,
UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {
    open var onmessage: ((MessageEvent) -> dynamic)?
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
    fun start()
    fun close()
}

Exposes the JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin
public external open class BroadcastChannel(name: String) : EventTarget {
    open val name: String
    var onmessage: ((MessageEvent) -> dynamic)?
    fun postMessage(message: Any?)
    fun close()
}

Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin
public external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope, GlobalPerformance {
    open val self: WorkerGlobalScope
    open val location: WorkerLocation
    open val navigator: WorkerNavigator
    open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?
    open var onlanguagechange: ((Event) -> dynamic)?
    open var onoffline: ((Event) -> dynamic)?
    open var online: ((Event) -> dynamic)?
    open var onrejectionhandled: ((Event) -> dynamic)?
    open var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?
    fun importScripts(vararg urls: String)
}

Exposes the JavaScript [DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin
public external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {
    open var onmessage: ((MessageEvent) -> dynamic)?
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
    fun close()
}

Exposes the JavaScript [SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to Kotlin
public external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {
    open val name: String
    open val applicationCache: ApplicationCache
    open var onconnect: ((Event) -> dynamic)?
    fun close()
}

Exposes the JavaScript [AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin
public external interface AbstractWorker {
    var onerror: ((Event) -> dynamic)?
    get() = definedExternally
    set(value) = definedExternally
}

Exposes the JavaScript [Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin
public external open class Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {
    var onmessage: ((MessageEvent) -> dynamic)?
    override var onerror: ((Event) -> dynamic)?
    fun terminate()
    fun postMessage(message: Any?),

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transfer: Array<dynamic> = definedExternally)\n\n\npublic external interface WorkerOptions {\n    var type:
WorkerType? /* = WorkerType.CLASSIC */\n    get() = definedExternally\n    set(value) = definedExternally\n
    var credentials: RequestCredentials? /* = RequestCredentials.OMIT */\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun WorkerOptions(type: WorkerType? =
WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {\n    val o
= js("{}")\n    o["type"] = type\n    o["credentials"] = credentials\n    return o\n}\n\n\n/**\n * Exposes the
JavaScript [SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin\n\n\n*/\n\n\npublic
external open class SharedWorker(scriptURL: String, name: String = definedExternally, options: WorkerOptions =
definedExternally) : EventTarget, AbstractWorker
{\n    open val port: MessagePort\n    override var onerror: ((Event) -> dynamic)?\n}\n\n\n\n/**\n * Exposes the
JavaScript
[NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to
Kotlin\n\n\n*/\n\n\npublic external interface NavigatorConcurrentHardware {\n    val hardwareConcurrency:
Number\n}\n\n\n\n/**\n * Exposes the JavaScript
[WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin\n\n\n*/\n\n\npublic
external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine,
NavigatorConcurrentHardware {\n    open val serviceWorker: ServiceWorkerContainer\n}\n\n\n\n\n/**\n * Exposes the
JavaScript [WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation) to Kotlin\n\n\n*/\n\n\npublic
external abstract class WorkerLocation {\n    open val href: String\n    open val origin: String\n    open val
protocol: String\n    open val host: String\n    open val hostname: String\n    open val
port: String\n    open val pathname: String\n    open val search: String\n    open val hash: String\n}\n\n\n\n\n/**\n *
Exposes the JavaScript [Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin\n\n\n*/\n\n\npublic
external abstract class Storage {\n    open val length: Int\n    fun key(index: Int): String?\n    fun removeItem(key:
String)\n    fun clear()\n    fun getItem(key: String): String?\n    fun setItem(key: String, value:
String)\n}\n\n\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun Storage.get(key: String):
String? = asDynamic()[key]\n\n\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun Storage.set(key: String, value:
String) { asDynamic()[key] = value }\n\n\n\n\n\n/**\n * Exposes the JavaScript
[WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin\n\n\n*/\n\n\npublic
external interface WindowSessionStorage
{\n    val sessionStorage: Storage\n}\n\n\n\n\n\n/**\n * Exposes the JavaScript
[WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin\n\n\n*/\n\n\npublic
external interface WindowLocalStorage {\n    val localStorage: Storage\n}\n\n\n\n\n\n/**\n * Exposes the
JavaScript [StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin\n\n\n*/\n\n\npublic
external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {\n
    open val key: String?\n    open val oldValue: String?\n    open val newValue: String?\n    open val url: String\n
    open val storageArea: Storage?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE:
Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\n\n\n\n\npublic external interface
StorageEventInit : EventInit {\n    var key: String? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var oldValue:
String? /* = null */\n    get() = definedExternally\n    set(value) = definedExternally\n    var newValue: String?
/* = null */\n    get() = definedExternally\n    set(value) = definedExternally\n    var url: String? /* = "" */\n
get() = definedExternally\n    set(value) = definedExternally\n    var storageArea: Storage? /* = null */\n
get() = definedExternally\n    set(value) = definedExternally\n}\n\n\n\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun StorageEventInit(key: String? = null,
oldValue: String? = null, newValue: String? = null, url: String? = "", storageArea: Storage? = null, bubbles:

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Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {
    val o = js("{}")
    o["key"] = key
    o["oldValue"] = oldValue
    o["newValue"] = newValue
    o["url"] = url
    o["storageArea"] = storageArea
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external abstract class HTMLAppletElement : HTMLElement {
    open var align: String
    open var alt: String
    open var archive: String
    open var code: String
    open var codeBase: String
    open var height: String
    open var hspace: Int
    open var name: String
    open var _object: String
    open var vspace: Int
    open var width: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin */
public external abstract class HTMLMarqueeElement : HTMLElement {
    open var behavior: String
    open var bgColor: String
    open var direction: String
    open var height: String
    open var hspace: Int
    open var loop: Int
    open var scrollAmount: Int
    open var scrollDelay: Int
    open var trueSpeed: Boolean
    open var vspace: Int
    open var width: String
    open var onbounce: ((Event) -> dynamic)?
    open var onfinish: ((Event) -> dynamic)?
    open var onstart: ((Event) -> dynamic)?
    fun start()
    fun stop()

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript [HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin */
public external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {
    open var cols: String
    open var rows: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external abstract class HTMLFrameElement : HTMLElement {
    open var name: String
    open var scrolling: String
    open var src: String
    open var frameBorder: String
    open var longDesc: String
    open var noResize: Boolean
    open val contentDocument: Document?
    open val contentWindow: Window?
    open var marginHeight: String
    open var marginWidth: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

```

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ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract
class HTMLDirectoryElement : HTMLElement {\n    open var compact: Boolean\n\n    companion object {\n
val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFontElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFontElement) to Kotlin\n */\n\npublic
external abstract class HTMLFontElement : HTMLElement {\n    open var color: String\n    open var face: String\n
open var size: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface External
{\n    fun AddSearchProvider()\n    fun
IsSearchProviderInstalled()\n}\n\npublic external interface EventInit {\n    var bubbles: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n    var cancelable: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n    var composed: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\npublic inline fun EventInit(bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): EventInit {\n    val o = js(\"({})\")\n    o[\"bubbles\"] =
bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the
JavaScript [CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\n */\n\npublic
external open class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally)
: Event {\n    open val detail: Any?\n    fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean,
detail: Any?)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val
AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface CustomEventInit :
EventInit {\n    var detail: Any? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\npublic inline fun CustomEventInit(detail: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CustomEventInit {\n    val o

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= js("{}")\n o["detail"] = detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n
o["composed"] = composed\n return o\n\n\npublic external interface EventListenerOptions {\n var capture:
Boolean? /* = false */\n get()
= definedExternally\n set(value) = definedExternally\n\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun EventListenerOptions(capture:
Boolean? = false): EventListenerOptions {\n val o = js("{}")\n o["capture"] = capture\n return
o\n\n\npublic external interface AddEventListenerOptions : EventListenerOptions {\n var passive: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var once: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun AddEventListenerOptions(passive:
Boolean? = false, once: Boolean? = false, capture: Boolean? = false): AddEventListenerOptions {\n val o =
js("{}")\n o["passive"] = passive\n o["once"] = once\n o["capture"] = capture\n return o\n\n\npublic
external interface NonElementParentNode {\n fun getElementById(elementId: String): Element?\n\n\n} *
Exposes the JavaScript
[DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin\n
*\n\npublic external interface DocumentOrShadowRoot {\n val fullscreenElement: Element?\n get() =
definedExternally\n\n\n} * Exposes the JavaScript
[ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin\n *\n\npublic external interface
ParentNode {\n val children: HTMLCollection\n val firstElementChild: Element?\n get() =
definedExternally\n val lastElementChild: Element?\n get() = definedExternally\n val childElementCount:
Int\n fun prepend(vararg nodes: dynamic)\n fun append(vararg nodes: dynamic)\n fun querySelector(selectors:
String): Element?\n fun querySelectorAll(selectors: String): NodeList\n\n\n} * Exposes the JavaScript
[NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode)
to Kotlin\n *\n\npublic external interface NonDocumentTypeChildNode {\n val previousElementSibling:
Element?\n get() = definedExternally\n val nextElementSibling: Element?\n get() =
definedExternally\n\n\n} * Exposes the JavaScript
[ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\n *\n\npublic external interface
ChildNode {\n fun before(vararg nodes: dynamic)\n fun after(vararg nodes: dynamic)\n fun
replaceWith(vararg nodes: dynamic)\n fun remove()\n\n\n} * Exposes the JavaScript
[Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin\n *\n\npublic external interface Slotable
{\n val assignedSlot: HTMLSlotElement?\n get() = definedExternally\n\n\n} * Exposes the JavaScript
[NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin\n *\n\npublic external abstract class
NodeList : ItemArrayLike<Node> {\n override
fun item(index: Int): Node?\n\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun NodeList.get(index: Int):
Node? = asDynamic()[index]\n\n\n} * Exposes the JavaScript
[HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin\n *\n\npublic
external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection {\n
override fun item(index: Int): Element?\n fun namedItem(name: String):
Element?\n\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLCollection.get(index:
Int): Element? = asDynamic()[index]\n\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLCollection.get(name:
String): Element? = asDynamic()[name]\n\n\n} * Exposes the JavaScript
[MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver)
to Kotlin\n *\n\npublic external open class MutationObserver(callback: (Array<MutationRecord>,
MutationObserver) -> Unit) {\n fun observe(target: Node, options: MutationObserverInit = definedExternally)\n
fun disconnect()\n fun takeRecords(): Array<MutationRecord>\n\n\n} * Exposes the JavaScript

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[MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin
*/\npublic external interface MutationObserverInit {\n    var childList: Boolean? /* = false */\n        get() =
definedExternally\n    set(value) = definedExternally\n    var attributes: Boolean?\n        get() =
definedExternally\n    set(value) = definedExternally\n    var characterData: Boolean?\n        get() =
definedExternally\n    set(value) = definedExternally\n    var subtree: Boolean? /* = false */\n        get() =
definedExternally\n    set(value) = definedExternally\n    var attributeOldValue: Boolean?\n        get() =
definedExternally\n    set(value)
= definedExternally\n    var characterDataOldValue: Boolean?\n        get() = definedExternally\n    set(value) =
definedExternally\n    var attributeFilter: Array<String>?\n        get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MutationObserverInit(childList:
Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? = undefined, subtree: Boolean? = false,
attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? = undefined, attributeFilter:
Array<String>? = undefined): MutationObserverInit {\n    val o = js(\"({})\")\n    o[\"childList\"] = childList\n    o[\"attributes\"] = attributes\n    o[\"characterData\"] = characterData\n    o[\"subtree\"] = subtree\n    o[\"attributeOldValue\"] = attributeOldValue\n    o[\"characterDataOldValue\"] = characterDataOldValue\n    o[\"attributeFilter\"] = attributeFilter\n    return o\n}\n\n/**\n * Exposes the JavaScript
[MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin
*/\npublic external
abstract class MutationRecord {\n    open val type: String\n    open val target: Node\n    open val addedNodes:
NodeList\n    open val removedNodes: NodeList\n    open val previousSibling: Node?\n    open val nextSibling:
Node?\n    open val attributeName: String?\n    open val attributeNamespace: String?\n    open val oldValue:
String?\n}\n\n/**\n * Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to
Kotlin
*/\npublic external abstract class Node : EventTarget {\n    open val nodeType: Short\n    open val
nodeName: String\n    open val baseURI: String\n    open val isConnected: Boolean\n    open val ownerDocument:
Document?\n    open val parentNode: Node?\n    open val parentElement: Element?\n    open val childNodes:
NodeList\n    open val firstChild: Node?\n    open val lastChild: Node?\n    open val previousSibling: Node?\n    open val nextSibling: Node?\n    open var nodeValue: String?\n    open var
textContent: String?\n    fun getRootNode(options: GetRootNodeOptions = definedExternally): Node\n    fun
hasChildNodes(): Boolean\n    fun normalize()\n    fun cloneNode(deep: Boolean = definedExternally): Node\n    fun
isEqualNode(otherNode: Node?): Boolean\n    fun isSameNode(otherNode: Node?): Boolean\n    fun
compareDocumentPosition(other: Node): Short\n    fun contains(other: Node?): Boolean\n    fun
lookupPrefix(namespace: String?): String?\n    fun lookupNamespaceURI(prefix: String?): String?\n    fun
isDefaultNamespace(namespace: String?): Boolean\n    fun insertBefore(node: Node, child: Node?): Node\n    fun
appendChild(node: Node): Node\n    fun replaceChild(node: Node, child: Node): Node\n    fun removeChild(child:
Node): Node\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val
DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
GetRootNodeOptions {\n    var composed: Boolean? /* = false */\n        get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun GetRootNodeOptions(composed:

```



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Boolean? = false): GetRootNodeOptions {\n  val
o = js("{}")\n  o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin\n */\npublic external open class
Document : Node, GlobalEventHandlers, DocumentAndElementEventHandlers, NonElementParentNode,
DocumentOrShadowRoot, ParentNode, GeometryUtils {\n  open val implementation: DOMImplementation\n
open val URL: String\n  open val documentURI: String\n  open val origin: String\n  open val compatMode:
String\n  open val characterSet: String\n  open val charset: String\n  open val inputEncoding: String\n  open val
contentType: String\n  open val doctype: DocumentType?\n  open val documentElement: Element?\n  open val
location: Location?\n  var domain: String\n  open val referrer: String\n  var cookie: String\n  open val
lastModified: String\n  open val readyState: DocumentReadyState\n  var title: String\n  var dir: String\n  var
body: HTMLElement?\n
  open val head: HTMLHeadElement?\n  open val images: HTMLCollection\n  open val embeds:
HTMLCollection\n  open val plugins: HTMLCollection\n  open val links: HTMLCollection\n  open val forms:
HTMLCollection\n  open val scripts: HTMLCollection\n  open val currentScript: HTMLScriptElement?\n
  open val defaultView: Window?\n  open val activeElement: Element?\n  var designMode: String\n  var
onreadystatechange: ((Event) -> dynamic)?\n  var fgColor: String\n  var linkColor: String\n  var vlinkColor:
String\n  var alinkColor: String\n  var bgColor: String\n  open val anchors: HTMLCollection\n  open val
applets: HTMLCollection\n  open val all: HTMLAllCollection\n  open val scrollingElement: Element?\n  open
val styleSheets: StyleSheetList\n  open val rootElement: SVGSVGElement?\n  open val fullscreenEnabled:
Boolean\n  open val fullscreen: Boolean\n  var onfullscreenchange: ((Event) -> dynamic)?\n  var
onfullscreenerror: ((Event)
-> dynamic)?\n  override var onabort: ((Event) -> dynamic)?\n  override var onblur: ((FocusEvent) ->
dynamic)?\n  override var oncancel: ((Event) -> dynamic)?\n  override var oncanplay: ((Event) -> dynamic)?\n
  override var oncanplaythrough: ((Event) -> dynamic)?\n  override var onchange: ((Event) -> dynamic)?\n
  override var onclick: ((MouseEvent) -> dynamic)?\n  override var onclose: ((Event) -> dynamic)?\n  override var
oncontextmenu: ((MouseEvent) -> dynamic)?\n  override var oncuechange: ((Event) -> dynamic)?\n  override var
ondblclick: ((MouseEvent) -> dynamic)?\n  override var ondrag: ((DragEvent) -> dynamic)?\n  override var
ondragend: ((DragEvent) -> dynamic)?\n  override var ondragenter: ((DragEvent) -> dynamic)?\n  override var
ondragexit: ((DragEvent) -> dynamic)?\n  override var ondragleave: ((DragEvent) -> dynamic)?\n  override var
ondragover: ((DragEvent) -> dynamic)?\n  override var ondragstart: ((DragEvent) -> dynamic)?\n  override
var ondrop: ((DragEvent) -> dynamic)?\n  override var ondurationchange: ((Event) -> dynamic)?\n  override var
onemptied: ((Event) -> dynamic)?\n  override var onended: ((Event) -> dynamic)?\n  override var onerror:
((dynamic, String, Int, Int, Any?) -> dynamic)?\n  override var onfocus: ((FocusEvent) -> dynamic)?\n  override
var oninput: ((InputEvent) -> dynamic)?\n  override var oninvalid: ((Event) -> dynamic)?\n  override var
onkeydown: ((KeyboardEvent) -> dynamic)?\n  override var onkeypress: ((KeyboardEvent) -> dynamic)?\n  override
var onkeyup: ((KeyboardEvent) -> dynamic)?\n  override var onload: ((Event) -> dynamic)?\n  override
var onloadeddata: ((Event) -> dynamic)?\n  override var onloadedmetadata: ((Event) -> dynamic)?\n  override var
onloadend: ((Event) -> dynamic)?\n  override var onloadstart: ((ProgressEvent) -> dynamic)?\n  override var
onmousedown: ((MouseEvent) -> dynamic)?\n  override var onmouseenter: ((MouseEvent) -> dynamic)?\n
  override var onmouseleave: ((MouseEvent) -> dynamic)?\n  override var onmousemove: ((MouseEvent) ->
dynamic)?\n  override var onmouseout: ((MouseEvent) -> dynamic)?\n  override var onmouseover:
((MouseEvent) -> dynamic)?\n  override var onmouseup: ((MouseEvent) -> dynamic)?\n  override var onwheel:
((WheelEvent) -> dynamic)?\n  override var onpause: ((Event) -> dynamic)?\n  override var onplay: ((Event) ->
dynamic)?\n  override var onplaying: ((Event) -> dynamic)?\n  override var onprogress: ((ProgressEvent) ->
dynamic)?\n  override var onratechange: ((Event) -> dynamic)?\n  override var onreset: ((Event) -> dynamic)?\n
  override var onresize: ((Event) -> dynamic)?\n  override var onscroll: ((Event) -> dynamic)?\n  override var
onseeked: ((Event) -> dynamic)?\n  override var onseeking: ((Event) -> dynamic)?\n  override var onselect:
((Event) -> dynamic)?\n  override var onshow: ((Event) -> dynamic)?\n  override var onstalled: ((Event) ->

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dynamic)?\n

override var onsubmit: ((Event) -> dynamic)?\n override var onsuspend: ((Event) -> dynamic)?\n override var ontimeoutupdate: ((Event) -> dynamic)?\n override var ontoggle: ((Event) -> dynamic)?\n override var onvolumechange: ((Event) -> dynamic)?\n override var onwaiting: ((Event) -> dynamic)?\n override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n override var onlostpointercapture: ((PointerEvent) -> dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove: ((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) -> dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy: ((ClipboardEvent) -> dynamic)?\n

override var oncut: ((ClipboardEvent) -> dynamic)?\n override var onpaste: ((ClipboardEvent) -> dynamic)?\n\n override val fullscreenElement: Element?\n override val children: HTMLCollection\n override val firstElementChild: Element?\n override val lastElementChild: Element?\n override val childElementCount: Int\n\n fun getElementsByTagName(qualifiedName: String): HTMLCollection\n fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n fun getElementsByTagNameNS(classNames: String): HTMLCollection\n fun createElement(localName: String, options: ElementCreationOptions = definedExternally): Element\n fun createElementNS(namespace: String?, qualifiedName: String, options: ElementCreationOptions = definedExternally): Element\n fun createDocumentFragment(): DocumentFragment\n fun createTextNode(data: String): Text\n fun createCDATASection(data: String): CDATASection\n fun createComment(data: String): Comment\n fun createProcessingInstruction(target: String, data: String): ProcessingInstruction\n fun importNode(node: Node, deep: Boolean = definedExternally): Node\n fun adoptNode(node: Node): Node\n fun createAttribute(localName: String): Attr\n fun createAttributeNS(namespace: String?, qualifiedName: String): Attr\n fun createEvent(`interface`: String): Event\n fun createRange(): Range\n fun createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): NodeIterator\n fun createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? = definedExternally): NodeIterator\n fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): TreeWalker\n fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker\n\n fun getElementByName(elementName: String): NodeList\n fun open(type: String = definedExternally, replace: String = definedExternally): Document\n fun open(url: String, name: String, features: String): Window\n fun close()\n fun write(vararg text: String)\n fun writeln(vararg text: String)\n fun hasFocus(): Boolean\n fun execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally): Boolean\n fun queryCommandEnabled(commandId: String): Boolean\n fun queryCommandIndeterm(commandId: String): Boolean\n fun queryCommandState(commandId: String): Boolean\n fun queryCommandSupported(commandId: String): Boolean\n fun queryCommandValue(commandId: String): String\n fun clear()\n fun captureEvents()\n fun releaseEvents()\n fun elementFromPoint(x: Double, y: Double): Element?\n fun elementsFromPoint(x: Double, y: Double): Array<Element>\n fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?\n fun createTouch(view: Window, target: EventTarget, identifier: Int, pageX: Int, pageY: Int, screenX: Int, screenY: Int): Touch\n fun createTouchList(vararg touches: Touch): TouchList\n fun exitFullscreen(): Promise<Unit>\n override fun getElementById(elementId: String): Element?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors: String): NodeList\n override fun getBoxQuads(options: BoxQuadOptions /\* = definedExternally \*/): Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /\* = definedExternally \*/): DOMQuad\n override fun convertRectFromNode(rect: DOMRectReadOnly, from:

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dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n  companion object
  {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
  }\n}\n\n@Suppress(\n"INVISIBLE_REFERENCE",
\n"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun Document.get(name: String):
dynamic = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument)
to Kotlin\n * \n\npublic external open class XMLDocument : Document {\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external interface
ElementCreationOptions {\n  var `is`: String?\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress(\n"INVISIBLE_REFERENCE",
\n"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ElementCreationOptions(`is`: String?
= undefined): ElementCreationOptions {\n  val o = js("{}")\n  o["is"] = `is`\n  return o\n}\n\n/**\n *
Exposes the JavaScript
[DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin\n
*\n\npublic external abstract class DOMImplementation {\n  fun createDocumentType(qualifiedName: String,
publicId: String, systemId: String): DocumentType\n  fun createDocument(namespace: String?, qualifiedName:
String, doctype: DocumentType? = definedExternally): XMLDocument\n  fun createHTMLDocument(title: String
= definedExternally): Document\n  fun hasFeature(): Boolean\n}\n\n/**\n * Exposes the JavaScript
[DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to Kotlin\n * \n\npublic external
abstract class DocumentType : Node, ChildNode
  {\n    open val name: String\n    open val publicId: String\n    open val systemId: String\n\n    companion object {\n
val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript

```

[DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to

```

Kotlin\n */\npublic external open class DocumentFragment : Node, NonElementParentNode, ParentNode {\n
override val children: HTMLCollection\n override val firstElementChild: Element?\n override val
lastElementChild: Element?\n override val childElementCount: Int\n override fun getElementById(elementId:
String): Element?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg nodes:
dynamic)\n override fun querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors:
String): NodeList\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val
DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes
the JavaScript [ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin\n */\npublic
external open class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {\n open val mode:
ShadowRootMode\n open val host: Element\n override val fullscreenElement: Element?\n\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE:
Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val
DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes
the JavaScript [Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin\n */\npublic external
abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils,
UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent,
UnionElementOrProcessingInstruction {\n open val namespaceURI: String?\n open val prefix: String?\n open
val localName: String\n open val tagName: String\n open var id: String\n open var className: String\n open
val classList:
DOMTokenList\n open var slot: String\n open val attributes: NamedNodeMap\n open val shadowRoot:
ShadowRoot?\n open var scrollTop: Double\n open var scrollLeft: Double\n open val scrollWidth: Int\n
open val scrollHeight: Int\n open val clientTop: Int\n open val clientLeft: Int\n open val clientWidth: Int\n
open val clientHeight: Int\n open var innerHTML: String\n open var outerHTML: String\n fun hasAttributes():
Boolean\n fun getAttributeNames(): Array<String>\n fun getAttribute(qualifiedName: String): String?\n fun
getAttributeNS(namespace: String?, localName: String): String?\n fun setAttribute(qualifiedName: String, value:
String)\n fun setAttributeNS(namespace: String?, qualifiedName: String, value: String)\n fun
removeAttribute(qualifiedName: String)\n fun removeAttributeNS(namespace: String?, localName: String)\n
fun hasAttribute(qualifiedName: String): Boolean\n fun hasAttributeNS(namespace: String?, localName:
String): Boolean\n fun getAttributeNode(qualifiedName: String): Attr?\n fun getAttributeNodeNS(namespace:
String?, localName: String): Attr?\n fun setAttributeNode(attr: Attr): Attr?\n fun setAttributeNodeNS(attr: Attr):
Attr?\n fun removeAttributeNode(attr: Attr): Attr?\n fun attachShadow(init: ShadowRootInit): ShadowRoot\n
fun closest(selectors: String): Element?\n fun matches(selectors: String): Boolean\n fun
webkitMatchesSelector(selectors: String): Boolean\n fun getElementsByTagName(qualifiedName: String):

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HTMLCollection\n fun getElementsByTagName(namespace: String?, localName: String): HTMLCollection\n
fun getElementsByTagName(classNames: String): HTMLCollection\n fun insertAdjacentElement(where: String,
element: Element): Element?\n fun insertAdjacentText(where: String, data: String)\n fun getClientRects():
Array<DOMRect>\n fun getBoundingClientRect(): DOMRect\n fun scrollIntoView()\n fun
scrollIntoView(arg: dynamic)\n
fun scroll(options: ScrollToOptions = definedExternally)\n fun scroll(x: Double, y: Double)\n fun
scrollTo(options: ScrollToOptions = definedExternally)\n fun scrollTo(x: Double, y: Double)\n fun
scrollBy(options: ScrollToOptions = definedExternally)\n fun scrollBy(x: Double, y: Double)\n fun
insertAdjacentHTML(position: String, text: String)\n fun setPointerCapture(pointerId: Int)\n fun
releasePointerCapture(pointerId: Int)\n fun hasPointerCapture(pointerId: Int): Boolean\n fun requestFullscreen():
Promise<Unit>\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val
DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n\npublic external
interface ShadowRootInit {\n var mode: ShadowRootMode?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ShadowRootInit(mode:
ShadowRootMode?): ShadowRootInit {\n val o = js(\"({})\")\n o[\"mode\"] = mode\n return o\n}\n\n/**\n *
Exposes the JavaScript [NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to
Kotlin\n */\npublic external abstract class NamedNodeMap : ItemArrayLike<Attr> {\n fun
getNamedItemNS(namespace: String?, localName: String): Attr?\n fun setNamedItem(attr: Attr): Attr?\n fun
setNamedItemNS(attr: Attr): Attr?\n
fun removeNamedItem(qualifiedName: String): Attr\n fun removeNamedItemNS(namespace: String?,
localName: String): Attr\n override fun item(index: Int): Attr?\n fun getNamedItem(qualifiedName: String):
Attr?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun NamedNodeMap.get(index:
Int): Attr? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]\n\n/**\n * Exposes the
JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin\n */\npublic external abstract class
Attr : Node {\n open val namespaceURI: String?\n open val prefix: String?\n open val localName: String\n
open val name: String\n open var value: String\n open val ownerElement: Element?\n open val specified:
Boolean\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\n */\npublic external

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abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\n  open val data: String\n
  open val length: Int\n  fun substringData(offset: Int, count: Int): String\n  fun appendData(data: String)\n  fun
insertData(offset: Int, data: String)\n  fun deleteData(offset: Int, count: Int)\n  fun replaceData(offset: Int, count:
Int, data: String)\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n  }\n}\n\n/**\n * Exposes the JavaScript [Text](https://developer.mozilla.org/en/docs/Web/API/Text) to
Kotlin\n */\n\npublic external open class Text(data: String = definedExternally) : CharacterData, Slotable,
GeometryUtils {\n  open val wholeText: String\n  override val assignedSlot: HTMLSlotElement?\n  override val
previousElementSibling: Element?\n  override val nextElementSibling: Element?\n  fun splitText(offset: Int):
Text\n  override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n
  override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */):
DOMPoint\n  override fun before(vararg nodes: dynamic)\n  override fun after(vararg nodes: dynamic)\n
  override fun replaceWith(vararg nodes: dynamic)\n  override fun remove()\n\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin\n */\n\npublic external
open class CDATASection : Text {\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction)
to Kotlin\n */\n\npublic external abstract class ProcessingInstruction : CharacterData, LinkStyle,
UnionElementOrProcessingInstruction {\n  open val target: String\n\n  companion object {\n    val

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ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
    }\n}\n\n/**\n * Exposes the JavaScript [Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to
Kotlin\n */\npublic external open class Comment(data: String = definedExternally) : CharacterData {\n    override
val previousElementSibling: Element?\n    override val nextElementSibling: Element?\n    override fun
before(vararg nodes: dynamic)\n    override fun after(vararg nodes: dynamic)\n    override fun replaceWith(vararg
nodes: dynamic)\n    override fun remove()\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n
            val DOCUMENT_POSITION_PRECEDING: Short\n            val DOCUMENT_POSITION_FOLLOWING:
Short\n            val DOCUMENT_POSITION_CONTAINS: Short\n            val
DOCUMENT_POSITION_CONTAINED_BY: Short\n            val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }\n}\n\n/**\n * Exposes the JavaScript
[Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin\n */\npublic external open class Range {\n
    open val startContainer: Node\n    open val startOffset: Int\n    open val endContainer: Node\n    open val
endOffset: Int\n    open val collapsed: Boolean\n    open val commonAncestorContainer: Node\n    fun setStart(node:
Node, offset: Int)\n    fun setEnd(node: Node, offset: Int)\n    fun setStartBefore(node: Node)\n    fun
setStartAfter(node: Node)\n    fun setEndBefore(node: Node)\n    fun setEndAfter(node: Node)\n    fun
collapse(toStart: Boolean = definedExternally)\n    fun selectNode(node: Node)\n    fun selectNodeContents(node:
Node)\n    fun compareBoundaryPoints(how:
    Short, sourceRange: Range): Short\n    fun deleteContents()\n    fun extractContents(): DocumentFragment\n    fun
cloneContents(): DocumentFragment\n    fun insertNode(node: Node)\n    fun surroundContents(newParent: Node)\n
    fun cloneRange(): Range\n    fun detach()\n    fun isPointInRange(node: Node, offset: Int): Boolean\n    fun
comparePoint(node: Node, offset: Int): Short\n    fun intersectsNode(node: Node): Boolean\n    fun getClientRects():
Array<DOMRect>\n    fun getBoundingClientRect(): DOMRect\n    fun createContextualFragment(fragment:
String): DocumentFragment\n\n    companion object {\n        val START_TO_START: Short\n        val
START_TO_END: Short\n        val END_TO_END: Short\n        val END_TO_START: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin\n
*/\npublic external abstract class NodeIterator {\n    open val root: Node\n    open val referenceNode: Node\n    open
val pointerBeforeReferenceNode:
    Boolean\n    open val whatToShow: Int\n    open val filter: NodeFilter?\n    fun nextNode(): Node?\n    fun
previousNode(): Node?\n    fun detach()\n}\n\n/**\n * Exposes the JavaScript
[TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin\n */\npublic external abstract
class TreeWalker {\n    open val root: Node\n    open val whatToShow: Int\n    open val filter: NodeFilter?\n    open
var currentNode: Node\n    fun parentNode(): Node?\n    fun firstChild(): Node?\n    fun lastChild(): Node?\n    fun
previousSibling(): Node?\n    fun nextSibling(): Node?\n    fun previousNode(): Node?\n    fun nextNode():
Node?\n}\n\n/**\n * Exposes the JavaScript

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[NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin\n
*\n\n@Suppress("\nNESTED_CLASS_IN_EXTERNAL_INTERFACE\n")\n\npublic external interface NodeFilter {\n
fun acceptNode(node: Node): Short\n\n companion object {\n val FILTER_ACCEPT: Short\n val FILTER_REJECT: Short\n val FILTER_SKIP: Short\n val SHOW_ALL: Int\n val SHOW_ELEMENT: Int\n val SHOW_ATTRIBUTE: Int\n val SHOW_TEXT: Int\n val SHOW_CDATA_SECTION: Int\n val SHOW_ENTITY_REFERENCE: Int\n val SHOW_ENTITY: Int\n val SHOW_PROCESSING_INSTRUCTION: Int\n val SHOW_COMMENT: Int\n val SHOW_DOCUMENT: Int\n val SHOW_DOCUMENT_TYPE: Int\n val SHOW_DOCUMENT_FRAGMENT: Int\n val SHOW_NOTATION: Int\n }\n}\n\n/**\n * Exposes the JavaScript
[DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList) to Kotlin\n *\n\npublic external abstract class DOMTokenList : ItemArrayLike<String> {\n open var value: String\n fun contains(token: String): Boolean\n fun add(vararg tokens: String)\n fun remove(vararg tokens: String)\n fun toggle(token: String, force: Boolean = definedExternally): Boolean\n fun replace(token: String, newToken: String)\n fun supports(token: String): Boolean\n override fun item(index: Int): String?\n}\n\n\n@Suppress("\nINVISIBLE_REFERENCE", "\nINVISIBLE_MEMBER\n")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun DOMTokenList.get(index: Int): String? = asDynamic()[index]\n\n\n/**\n * Exposes the JavaScript
[DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin\n *\n\npublic external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {\n open val x: Double\n open val y: Double\n open val z: Double\n open val w: Double\n fun matrixTransform(matrix: DOMMatrixReadOnly): DOMPoint}\n\n\n/**\n * Exposes the JavaScript
[DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin\n *\n\npublic external open class DOMPoint : DOMPointReadOnly {\n constructor(point: DOMPointInit)\n constructor(x: Double = definedExternally, y: Double = definedExternally, z: Double = definedExternally, w: Double = definedExternally)\n\n override var x: Double\n override var y: Double\n override var z: Double\n override var w: Double\n}\n\n\n/**\n * Exposes the JavaScript
[DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin\n *\n\npublic external interface DOMPointInit {\n var x: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n var y: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n var z: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n var w: Double? /* = 1.0 */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n\n@Suppress("\nINVISIBLE_REFERENCE", "\nINVISIBLE_MEMBER\n")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun DOMPointInit(x: Double? = 0.0, y: Double? = 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {\n val o = js("\n({})\n")\n o["x"] = x\n o["y"] = y\n o["z"] = z\n o["w"] = w\n return o\n}\n\n\n/**\n * Exposes the JavaScript
[DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin\n *\n\npublic external open class DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally, height: Double = definedExternally) : DOMRectReadOnly {\n override var x: Double\n override var y: Double\n override var width: Double\n override var height: Double\n}\n\n\n/**\n * Exposes the JavaScript
[DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin\n *\n\npublic external open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {\n open val x: Double\n open val y: Double\n open val width: Double\n open val height: Double\n open val top: Double\n open val right: Double\n open val bottom: Double\n open val left: Double\n}\n\n\npublic external interface DOMRectInit {\n var x: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n var y: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n var width: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n var height: Double? /* = 0.0 */\n get() = definedExternally\n set(value) =

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definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun DOMRectInit(x: Double? = 0.0, y:
Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {\n    val o = js(\"({})\")\n    o[\"x\"] =
x\n    o[\"y\"] = y\n    o[\"width\"] = width\n    o[\"height\"] = height\n    return o\n}\n\npublic external interface
DOMRectList : ItemArrayLike<DOMRect> {\n    override fun item(index: Int):
DOMRect?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMRectList.get(index: Int):
DOMRect? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin\n */\n\npublic external open class DOMQuad {\n    constructor(p1: DOMPointInit = definedExternally, p2:
DOMPointInit = definedExternally, p3: DOMPointInit = definedExternally, p4: DOMPointInit =
definedExternally)\n    constructor(rect: DOMRectInit)\n    open val p1: DOMPoint\n    open val p2: DOMPoint\n    open val p3: DOMPoint\n    open val p4: DOMPoint\n    open val bounds: DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript
[DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to Kotlin\n */\n\npublic external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {\n    open val a: Double\n    open val b: Double\n    open val c: Double\n    open val d: Double\n    open val e: Double\n    open val f: Double\n    open val m11: Double\n    open val m12: Double\n    open val m13: Double\n    open val m14: Double\n    open val
m21: Double\n    open val m22: Double\n    open val m23: Double\n    open val m24: Double\n    open val m31: Double\n    open
val m32: Double\n    open val m33: Double\n    open val m34: Double\n    open val m41: Double\n    open val m42:
Double\n    open val m43: Double\n    open val m44: Double\n    open val is2D: Boolean\n    open val isIdentity:
Boolean\n    fun translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n    fun scale(scale:
Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n    fun
scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double
= definedExternally): DOMMatrix\n    fun scaleNonUniform(scaleX: Double, scaleY: Double = definedExternally,
scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally,
originZ: Double = definedExternally): DOMMatrix\n    fun rotate(angle: Double, originX: Double =
definedExternally,
originY: Double = definedExternally): DOMMatrix\n    fun rotateFromVector(x: Double, y: Double):
DOMMatrix\n    fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\n    fun
skewX(sx: Double): DOMMatrix\n    fun skewY(sy: Double): DOMMatrix\n    fun multiply(other: DOMMatrix):
DOMMatrix\n    fun flipX(): DOMMatrix\n    fun flipY(): DOMMatrix\n    fun inverse(): DOMMatrix\n    fun
transformPoint(point: DOMPointInit = definedExternally): DOMPoint\n    fun toFloat32Array(): Float32Array\n    fun
toFloat64Array(): Float64Array\n}\n\n/**\n * Exposes the JavaScript
[DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix) to Kotlin\n */\n\npublic external open
class DOMMatrix() : DOMMatrixReadOnly {\n    constructor(transformList: String)\n    constructor(other:
DOMMatrixReadOnly)\n    constructor(array32: Float32Array)\n    constructor(array64: Float64Array)\n    constructor(numberSequence: Array<Double>)\n    override var a: Double\n    override var b:
Double\n    override var c: Double\n    override var d: Double\n    override var e: Double\n    override var f:
Double\n    override var m11: Double\n    override var m12: Double\n    override var m13: Double\n    override var
m14: Double\n    override var m21: Double\n    override var m22: Double\n    override var m23: Double\n    override
var m24: Double\n    override var m31: Double\n    override var m32: Double\n    override var m33: Double\n    override
var m34: Double\n    override var m41: Double\n    override var m42: Double\n    override var m43:
Double\n    override var m44: Double\n    fun multiplySelf(other: DOMMatrix): DOMMatrix\n    fun
preMultiplySelf(other: DOMMatrix): DOMMatrix\n    fun translateSelf(tx: Double, ty: Double, tz: Double =
definedExternally): DOMMatrix\n    fun scaleSelf(scale: Double, originX: Double = definedExternally, originY:
Double = definedExternally): DOMMatrix\n    fun scale3dSelf(scale: Double, originX: Double = definedExternally,

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originY: Double
= definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun scaleNonUniformSelf(scaleX:
Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double =
definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun
rotateSelf(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally):
DOMMatrix\n fun rotateFromVectorSelf(x: Double, y: Double): DOMMatrix\n fun rotateAxisAngleSelf(x:
Double, y: Double, z: Double, angle: Double): DOMMatrix\n fun skewXSelf(sx: Double): DOMMatrix\n fun
skewYSelf(sy: Double): DOMMatrix\n fun invertSelf(): DOMMatrix\n fun setMatrixValue(transformList:
String): DOMMatrix\n}\n\npublic external interface ScrollOptions {\n var behavior: ScrollBehavior? /* =
ScrollBehavior.AUTO */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic
inline fun ScrollOptions(behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {\n val o =
js(\"({})\")\n o[\"behavior\"] = behavior\n return o}\n\n/**\n * Exposes the JavaScript
[ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions) to Kotlin\n */\npublic external
interface ScrollToOptions : ScrollOptions {\n var left: Double?\n get() = definedExternally\n set(value) =
definedExternally\n var top: Double?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ScrollToOptions(left: Double? =
undefined, top: Double? = undefined, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollToOptions {\n
val o = js(\"({})\")\n o[\"left\"] = left\n o[\"top\"] = top\n o[\"behavior\"] = behavior\n return o}\n\n/**\n *
Exposes the JavaScript [MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList)
to Kotlin\n */\npublic external abstract class MediaQueryList : EventTarget {\n open val media: String\n open
val matches: Boolean\n open var onchange: ((Event) -> dynamic)?\n fun addListener(listener: EventListener?)\n
fun addListener(listener: ((Event) -> Unit)?)\n fun removeListener(listener: EventListener?)\n fun
removeListener(listener: ((Event) -> Unit)?)\n}\n\n/**\n * Exposes the JavaScript
[MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin\n */\npublic external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit =
definedExternally) : Event {\n open val media: String\n open val matches: Boolean\n\n companion object {\n
val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface MediaQueryListEventInit
: EventInit {\n var media: String? /* = \"\" */\n get() = definedExternally\n set(value) =
definedExternally\n var matches: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaQueryListEventInit(media:
String? = \"\", matches: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): MediaQueryListEventInit {\n val o = js(\"({})\")\n o[\"media\"] = media\n o[\"matches\"] =
matches\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return
o}\n\n/**\n * Exposes the JavaScript [Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin\n */\npublic external abstract class Screen {\n open val availWidth: Int\n open val availHeight: Int\n open val
width: Int\n open val height:
Int\n open val colorDepth: Int\n open val pixelDepth: Int\n}\n\n/**\n * Exposes the JavaScript
[CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin\n */\npublic external
abstract class CaretPosition {\n open val offsetNode: Node\n open val offset: Int\n fun getClientRect():
DOMRect?\n}\n\npublic external interface ScrollIntoViewOptions : ScrollOptions {\n var block:
ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n get() = definedExternally\n set(value) =
definedExternally\n var inline: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

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\ "INVISIBLE_MEMBER" ) \n @ kotlin . internal . InlineOnly \n public inline fun ScrollIntoViewOptions ( block :
ScrollLogicalPosition ? = ScrollLogicalPosition . CENTER , inline : ScrollLogicalPosition ? =
ScrollLogicalPosition . CENTER , behavior : ScrollBehavior ? =
ScrollBehavior . AUTO ) : ScrollIntoViewOptions { \n val o = js ( " ( { } ) " ) \n o [ " block " ] = block \n o [ " inline " ] =
inline \n o [ " behavior " ] = behavior \n return o \n } \n \n public external interface BoxQuadOptions { \n var box :
CSSBoxType ? /* = CSSBoxType . BORDER */ \n get () = definedExternally \n set ( value ) =
definedExternally \n var relativeTo : dynamic \n get () = definedExternally \n set ( value ) =
definedExternally \n } \n \n @ Suppress ( " INVISIBLE_REFERENCE " ) ,
\ "INVISIBLE_MEMBER" ) \n @ kotlin . internal . InlineOnly \n public inline fun BoxQuadOptions ( box : CSSBoxType ?
= CSSBoxType . BORDER , relativeTo : dynamic = undefined ) : BoxQuadOptions { \n val o = js ( " ( { } ) " ) \n
o [ " box " ] = box \n o [ " relativeTo " ] = relativeTo \n return o \n } \n \n public external interface
ConvertCoordinateOptions { \n var fromBox : CSSBoxType ? /* = CSSBoxType . BORDER */ \n get () =
definedExternally \n set ( value ) = definedExternally \n var toBox : CSSBoxType ? /* = CSSBoxType . BORDER
*/ \n get () = definedExternally \n set ( value ) =
definedExternally \n } \n \n @ Suppress ( " INVISIBLE_REFERENCE " ) ,
\ "INVISIBLE_MEMBER" ) \n @ kotlin . internal . InlineOnly \n public inline fun ConvertCoordinateOptions ( fromBox :
CSSBoxType ? = CSSBoxType . BORDER , toBox : CSSBoxType ? = CSSBoxType . BORDER ) :
ConvertCoordinateOptions { \n val o = js ( " ( { } ) " ) \n o [ " fromBox " ] = fromBox \n o [ " toBox " ] = toBox \n
return o \n } \n \n /** \n * Exposes the JavaScript
[GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin \n */ \n public external
interface GeometryUtils { \n fun getBoxQuads ( options : BoxQuadOptions = definedExternally ) :
Array < DOMQuad > \n fun convertQuadFromNode ( quad : dynamic , from : dynamic , options :
ConvertCoordinateOptions = definedExternally ) : DOMQuad \n fun convertRectFromNode ( rect :
DOMRectReadOnly , from : dynamic , options : ConvertCoordinateOptions = definedExternally ) : DOMQuad \n fun
convertPointFromNode ( point : DOMPointInit , from : dynamic ,
options : ConvertCoordinateOptions = definedExternally ) : DOMPoint \n } \n \n /** \n * Exposes the JavaScript
[Touch](https://developer.mozilla.org/en/docs/Web/API/Touch) to Kotlin \n */ \n public external abstract class Touch
{ \n open val identifier : Int \n open val target : EventTarget \n open val screenX : Int \n open val screenY : Int \n
open val clientX : Int \n open val clientY : Int \n open val pageX : Int \n open val pageY : Int \n open val region :
String ? \n } \n \n public external abstract class TouchList : ItemArrayLike < Touch > { \n override fun item ( index : Int ) :
Touch ? \n } \n \n @ Suppress ( " INVISIBLE_REFERENCE " ) ,
\ "INVISIBLE_MEMBER" ) \n @ kotlin . internal . InlineOnly \n public inline operator fun TouchList . get ( index : Int ) :
Touch ? = asDynamic () [ index ] \n \n public external open class TouchEvent : UIEvent { \n open val touches :
TouchList \n open val targetTouches : TouchList \n open val changedTouches : TouchList \n open val altKey :
Boolean \n open val metaKey : Boolean \n open val
ctrlKey : Boolean \n open val shiftKey : Boolean \n \n companion object { \n val NONE : Short \n val
CAPTURING_PHASE : Short \n val AT_TARGET : Short \n val BUBBLING_PHASE : Short \n
} \n } \n \n /** \n * Exposes the JavaScript [Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin \n
*/ \n public external open class Image ( width : Int = definedExternally , height : Int = definedExternally ) :
HTMLImageElement { \n override var onabort : ( ( Event ) -> dynamic ) ? \n override var onblur : ( ( FocusEvent ) ->
dynamic ) ? \n override var onCancel : ( ( Event ) -> dynamic ) ? \n override var oncanplay : ( ( Event ) -> dynamic ) ? \n
override var oncanplaythrough : ( ( Event ) -> dynamic ) ? \n override var onChange : ( ( Event ) -> dynamic ) ? \n
override var onclick : ( ( MouseEvent ) -> dynamic ) ? \n override var onclose : ( ( Event ) -> dynamic ) ? \n override var
oncontextmenu : ( ( MouseEvent ) -> dynamic ) ? \n override var oncuechange : ( ( Event ) -> dynamic ) ? \n override var
ondblclick : ( ( MouseEvent )
-> dynamic ) ? \n override var ondrag : ( ( DragEvent ) -> dynamic ) ? \n override var ondragend : ( ( DragEvent ) ->
dynamic ) ? \n override var ondragenter : ( ( DragEvent ) -> dynamic ) ? \n override var ondragexit : ( ( DragEvent ) ->
dynamic ) ? \n override var ondragleave : ( ( DragEvent ) -> dynamic ) ? \n override var ondragover : ( ( DragEvent ) ->

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dynamic)?\n  override var ondragstart: ((DragEvent) -> dynamic)?\n  override var ondrop: ((DragEvent) ->
dynamic)?\n  override var ondurationchange: ((Event) -> dynamic)?\n  override var onemptied: ((Event) ->
dynamic)?\n  override var onended: ((Event) -> dynamic)?\n  override var onerror: ((dynamic, String, Int, Int,
Any?) -> dynamic)?\n  override var onfocus: ((FocusEvent) -> dynamic)?\n  override var oninput: ((InputEvent) -
> dynamic)?\n  override var oninvalid: ((Event) -> dynamic)?\n  override var onkeydown: ((KeyboardEvent) ->
dynamic)?\n  override var onkeypress: ((KeyboardEvent) -> dynamic)?\n  override var onkeyup:
((KeyboardEvent) -> dynamic)?\n  override var onload: ((Event) -> dynamic)?\n  override var onloadeddata:
((Event) -> dynamic)?\n  override var onloadedmetadata: ((Event) -> dynamic)?\n  override var onloadend:
((Event) -> dynamic)?\n  override var onloadstart: ((ProgressEvent) -> dynamic)?\n  override var onmousedown:
((MouseEvent) -> dynamic)?\n  override var onmouseenter: ((MouseEvent) -> dynamic)?\n  override var
onmouseleave: ((MouseEvent) -> dynamic)?\n  override var onmousemove: ((MouseEvent) -> dynamic)?\n
override var onmouseout: ((MouseEvent) -> dynamic)?\n  override var onmouseover: ((MouseEvent) ->
dynamic)?\n  override var onmouseup: ((MouseEvent) -> dynamic)?\n  override var onwheel: ((WheelEvent) ->
dynamic)?\n  override var onpause: ((Event) -> dynamic)?\n  override var onplay: ((Event) -> dynamic)?\n
override var onplaying: ((Event) -> dynamic)?\n  override var onprogress: ((ProgressEvent) -> dynamic)?\n
override var onratechange:
((Event) -> dynamic)?\n  override var onreset: ((Event) -> dynamic)?\n  override var onresize: ((Event) ->
dynamic)?\n  override var onscroll: ((Event) -> dynamic)?\n  override var onseeked: ((Event) -> dynamic)?\n
override var onseeking: ((Event) -> dynamic)?\n  override var onselect: ((Event) -> dynamic)?\n  override var
onshow: ((Event) -> dynamic)?\n  override var onstalled: ((Event) -> dynamic)?\n  override var onsubmit:
((Event) -> dynamic)?\n  override var onsuspend: ((Event) -> dynamic)?\n  override var ontimeupdate: ((Event) -
> dynamic)?\n  override var ontoggle: ((Event) -> dynamic)?\n  override var onvolumechange: ((Event) ->
dynamic)?\n  override var onwaiting: ((Event) -> dynamic)?\n  override var ongotpointercapture: ((PointerEvent)
-> dynamic)?\n  override var onlostpointercapture: ((PointerEvent) -> dynamic)?\n  override var onpointerdown:
((PointerEvent) -> dynamic)?\n  override var onpointermove: ((PointerEvent) -> dynamic)?\n
  override var onpointerup: ((PointerEvent) -> dynamic)?\n  override var onpointercancel: ((PointerEvent) ->
dynamic)?\n  override var onpointerover: ((PointerEvent) -> dynamic)?\n  override var onpointerout:
((PointerEvent) -> dynamic)?\n  override var onpointerenter: ((PointerEvent) -> dynamic)?\n  override var
onpointerleave: ((PointerEvent) -> dynamic)?\n  override var oncopy: ((ClipboardEvent) -> dynamic)?\n  override
var oncut: ((ClipboardEvent) -> dynamic)?\n  override var onpaste: ((ClipboardEvent) -> dynamic)?\n  override
var contentEditable: String\n  override val isContentEditable: Boolean\n  override val style:
CSSStyleDeclaration\n  override val children: HTMLCollection\n  override val firstElementChild: Element?\n
override val lastElementChild: Element?\n  override val childElementCount: Int\n  override val
previousElementSibling: Element?\n  override val nextElementSibling: Element?\n  override val assignedSlot:
HTMLSlotElement?\n
  override fun prepend(vararg nodes: dynamic)\n  override fun append(vararg nodes: dynamic)\n  override fun
querySelector(selectors: String): Element?\n  override fun querySelectorAll(selectors: String): NodeList\n
override fun before(vararg nodes: dynamic)\n  override fun after(vararg nodes: dynamic)\n  override fun
replaceWith(vararg nodes: dynamic)\n  override fun remove()\n  override fun getBoxQuads(options:
BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n  override fun convertQuadFromNode(quad:
dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override
fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val

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DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n\npublic external open class
Audio(src: String = definedExternally) : HTMLAudioElement { \n    override var onabort: ((Event) -> dynamic)? \n
override var onblur: ((FocusEvent) -> dynamic)? \n    override var oncancel: ((Event) -> dynamic)? \n    override var
oncanplay: ((Event) -> dynamic)? \n
    override var oncanplaythrough: ((Event) -> dynamic)? \n    override var onchange: ((Event) -> dynamic)? \n
override var onclick: ((MouseEvent) -> dynamic)? \n    override var onclose: ((Event) -> dynamic)? \n    override var
oncontextmenu: ((MouseEvent) -> dynamic)? \n    override var oncuechange: ((Event) -> dynamic)? \n    override var
ondblclick: ((MouseEvent) -> dynamic)? \n    override var ondrag: ((DragEvent) -> dynamic)? \n    override var
ondragend: ((DragEvent) -> dynamic)? \n    override var ondragenter: ((DragEvent) -> dynamic)? \n    override var
ondragexit: ((DragEvent) -> dynamic)? \n    override var ondragleave: ((DragEvent) -> dynamic)? \n    override var
ondragover: ((DragEvent) -> dynamic)? \n    override var ondragstart: ((DragEvent) -> dynamic)? \n    override var
ondrop: ((DragEvent) -> dynamic)? \n    override var ondurationchange: ((Event) -> dynamic)? \n    override var
onemptied: ((Event) -> dynamic)? \n    override var onended: ((Event) -> dynamic)? \n    override var
onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)? \n    override var onfocus: ((FocusEvent) -> dynamic)? \n
override var oninput: ((InputEvent) -> dynamic)? \n    override var oninvalid: ((Event) -> dynamic)? \n    override var
onkeydown: ((KeyboardEvent) -> dynamic)? \n    override var onkeypress: ((KeyboardEvent) -> dynamic)? \n
override var onkeyup: ((KeyboardEvent) -> dynamic)? \n    override var onload: ((Event) -> dynamic)? \n    override
var onloadeddata: ((Event) -> dynamic)? \n    override var onloadedmetadata: ((Event) -> dynamic)? \n    override var
onloadend: ((Event) -> dynamic)? \n    override var onloadstart: ((ProgressEvent) -> dynamic)? \n    override var
onmousedown: ((MouseEvent) -> dynamic)? \n    override var onmouseenter: ((MouseEvent) -> dynamic)? \n
override var onmouseleave: ((MouseEvent) -> dynamic)? \n    override var onmousemove: ((MouseEvent) ->
dynamic)? \n    override var onmouseout: ((MouseEvent) -> dynamic)? \n    override var onmouseover:
((MouseEvent)
-> dynamic)? \n    override var onmouseup: ((MouseEvent) -> dynamic)? \n    override var onwheel: ((WheelEvent) -
> dynamic)? \n    override var onpause: ((Event) -> dynamic)? \n    override var onplay: ((Event) -> dynamic)? \n
override var onplaying: ((Event) -> dynamic)? \n    override var onprogress: ((ProgressEvent) -> dynamic)? \n
override var onratechange: ((Event) -> dynamic)? \n    override var onreset: ((Event) -> dynamic)? \n    override var
onresize: ((Event) -> dynamic)? \n    override var onscroll: ((Event) -> dynamic)? \n    override var onseeked:
((Event) -> dynamic)? \n    override var onseeking: ((Event) -> dynamic)? \n    override var onselect: ((Event) ->
dynamic)? \n    override var onshow: ((Event) -> dynamic)? \n    override var onstalled: ((Event) -> dynamic)? \n
override var onsubmit: ((Event) -> dynamic)? \n    override var onsuspend: ((Event) -> dynamic)? \n    override var
ontimeupdate: ((Event) -> dynamic)? \n    override var ontoggle: ((Event) -> dynamic)? \n    override
var onvolumechange: ((Event) -> dynamic)? \n    override var onwaiting: ((Event) -> dynamic)? \n    override var
ongotpointercapture: ((PointerEvent) -> dynamic)? \n    override var onlostpointercapture: ((PointerEvent) ->
dynamic)? \n    override var onpointerdown: ((PointerEvent) -> dynamic)? \n    override var onpointermove:
((PointerEvent) -> dynamic)? \n    override var onpointerup: ((PointerEvent) -> dynamic)? \n    override var
onpointercancel: ((PointerEvent) -> dynamic)? \n    override var onpointerover: ((PointerEvent) -> dynamic)? \n
override var onpointerout: ((PointerEvent) -> dynamic)? \n    override var onpointerenter: ((PointerEvent) ->
dynamic)? \n    override var onpointerleave: ((PointerEvent) -> dynamic)? \n    override var oncopy:
((ClipboardEvent) -> dynamic)? \n    override var oncut: ((ClipboardEvent) -> dynamic)? \n    override var onpaste:
((ClipboardEvent) -> dynamic)? \n    override var contentEditable: String \n    override val isContentEditable:
Boolean \n    override

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val style: CSSStyleDeclaration\n  override val children: HTMLCollection\n  override val firstElementChild:
Element?\n  override val lastElementChild: Element?\n  override val childElementCount: Int\n  override val
previousElementSibling: Element?\n  override val nextElementSibling: Element?\n  override val assignedSlot:
HTMLSlotElement?\n  override fun prepend(vararg nodes: dynamic)\n  override fun append(vararg nodes:
dynamic)\n  override fun querySelector(selectors: String): Element?\n  override fun querySelectorAll(selectors:
String): NodeList\n  override fun before(vararg nodes: dynamic)\n  override fun after(vararg nodes: dynamic)\n
override fun replaceWith(vararg nodes: dynamic)\n  override fun remove()\n  override fun getBoxQuads(options:
BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n  override fun convertQuadFromNode(quad:
dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override
fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n  companion object {\n    val
NETWORK_EMPTY: Short\n    val NETWORK_IDLE: Short\n    val NETWORK_LOADING: Short\n    val NETWORK_NO_SOURCE: Short\n    val HAVE_NOTHING: Short\n    val HAVE_METADATA:
Short\n    val HAVE_CURRENT_DATA: Short\n    val HAVE_FUTURE_DATA: Short\n    val
HAVE_ENOUGH_DATA: Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n\n  /**\n   * Exposes the JavaScript
[Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\n   */\n  @public external open class
Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean =
definedExternally, selected: Boolean = definedExternally) : HTMLOptionElement {\n    override var onabort:
((Event) -> dynamic)?\n    override var onblur: ((FocusEvent) -> dynamic)?\n    override var oncancel: ((Event) ->
dynamic)?\n    override var oncanplay: ((Event) -> dynamic)?\n    override var oncanplaythrough: ((Event) ->
dynamic)?\n    override var onchange: ((Event)
-> dynamic)?\n    override var onclick: ((MouseEvent) -> dynamic)?\n    override var onclose: ((Event) ->
dynamic)?\n    override var oncontextmenu: ((MouseEvent) -> dynamic)?\n    override var oncuechange: ((Event) ->
dynamic)?\n    override var ondblclick: ((MouseEvent) -> dynamic)?\n    override var ondrag: ((DragEvent) ->
dynamic)?\n    override var ondragend: ((DragEvent) -> dynamic)?\n    override var ondragenter: ((DragEvent) ->
dynamic)?\n    override var ondragexit: ((DragEvent) -> dynamic)?\n    override var ondragleave: ((DragEvent) ->
dynamic)?\n    override var ondragover: ((DragEvent) -> dynamic)?\n    override var ondragstart: ((DragEvent) ->
dynamic)?\n    override var ondrop: ((DragEvent) -> dynamic)?\n    override var ondurationchange: ((Event) ->
dynamic)?\n    override var onemptied: ((Event) -> dynamic)?\n    override var onended: ((Event) -> dynamic)?\n
override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n    override var onfocus: ((FocusEvent)
-> dynamic)?\n    override var oninput: ((InputEvent) -> dynamic)?\n    override var oninvalid: ((Event) ->
dynamic)?\n    override var onkeydown: ((KeyboardEvent) -> dynamic)?\n    override var onkeypress:
((KeyboardEvent) -> dynamic)?\n    override var onkeyup: ((KeyboardEvent) -> dynamic)?\n    override var onload:
((Event) -> dynamic)?\n    override var onloadeddata: ((Event) -> dynamic)?\n    override var onloadedmetadata:
((Event) -> dynamic)?\n    override var onloadend: ((Event) -> dynamic)?\n    override var onloadstart:
((ProgressEvent) -> dynamic)?\n    override var onmousedown: ((MouseEvent) -> dynamic)?\n    override var
onmouseenter: ((MouseEvent) -> dynamic)?\n    override var onmouseleave: ((MouseEvent) -> dynamic)?\n
override var onmousemove: ((MouseEvent) -> dynamic)?\n    override var onmouseout: ((MouseEvent) ->

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dynamic)?\n  override var onmouseover: ((MouseEvent) -> dynamic)?\n  override var onmouseup: ((MouseEvent)
-> dynamic)?\n  override var onwheel:
  ((WheelEvent) -> dynamic)?\n  override var onpause: ((Event) -> dynamic)?\n  override var onplay: ((Event) ->
dynamic)?\n  override var onplaying: ((Event) -> dynamic)?\n  override var onprogress: ((ProgressEvent) ->
dynamic)?\n  override var onratechange: ((Event) -> dynamic)?\n  override var onreset: ((Event) -> dynamic)?\n
override var onresize: ((Event) -> dynamic)?\n  override var onscroll: ((Event) -> dynamic)?\n  override var
onseeked: ((Event) -> dynamic)?\n  override var onseeking: ((Event) -> dynamic)?\n  override var onselect:
((Event) -> dynamic)?\n  override var onshow: ((Event) -> dynamic)?\n  override var onstalled: ((Event) ->
dynamic)?\n  override var onsubmit: ((Event) -> dynamic)?\n  override var onsuspend: ((Event) -> dynamic)?\n
override var ontimeupdate: ((Event) -> dynamic)?\n  override var ontoggle: ((Event) -> dynamic)?\n  override var
onvolumechange: ((Event) -> dynamic)?\n  override var onwaiting: ((Event) -> dynamic)?\n
  override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n  override var onlostpointercapture:
((PointerEvent) -> dynamic)?\n  override var onpointerdown: ((PointerEvent) -> dynamic)?\n  override var
onpointermove: ((PointerEvent) -> dynamic)?\n  override var onpointerup: ((PointerEvent) -> dynamic)?\n
override var onpointercancel: ((PointerEvent) -> dynamic)?\n  override var onpointerover: ((PointerEvent) ->
dynamic)?\n  override var onpointerout: ((PointerEvent) -> dynamic)?\n  override var onpointerenter:
((PointerEvent) -> dynamic)?\n  override var onpointerleave: ((PointerEvent) -> dynamic)?\n  override var
oncopy: ((ClipboardEvent) -> dynamic)?\n  override var oncut: ((ClipboardEvent) -> dynamic)?\n  override var
onpaste: ((ClipboardEvent) -> dynamic)?\n  override var contentEditable: String\n  override val
isContentEditable: Boolean\n  override val style: CSSStyleDeclaration\n  override val children:
HTMLCollection\n  override val
  firstElementChild: Element?\n  override val lastElementChild: Element?\n  override val childElementCount:
Int\n  override val previousElementSibling: Element?\n  override val nextElementSibling: Element?\n  override
val assignedSlot: HTMLSlotElement?\n  override fun prepend(vararg nodes: dynamic)\n  override fun
append(vararg nodes: dynamic)\n  override fun querySelector(selectors: String): Element?\n  override fun
querySelectorAll(selectors: String): NodeList\n  override fun before(vararg nodes: dynamic)\n  override fun
after(vararg nodes: dynamic)\n  override fun replaceWith(vararg nodes: dynamic)\n  override fun remove()\n
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n  override
fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions
/* = definedExternally */): DOMQuad\n  override fun convertPointFromNode(point: DOMPointInit, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n  companion object {\n
val ELEMENT_NODE: Short\n  val ATTRIBUTE_NODE: Short\n  val TEXT_NODE: Short\n  val
CDATA_SECTION_NODE: Short\n  val ENTITY_REFERENCE_NODE: Short\n  val ENTITY_NODE:
Short\n  val PROCESSING_INSTRUCTION_NODE: Short\n  val COMMENT_NODE: Short\n  val
DOCUMENT_NODE: Short\n  val DOCUMENT_TYPE_NODE: Short\n  val
DOCUMENT_FRAGMENT_NODE: Short\n  val NOTATION_NODE: Short\n  val
DOCUMENT_POSITION_DISCONNECTED: Short\n  val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n  val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n  val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n\n  public external interface
UnionElementOrHTMLCollection\n  public external interface UnionElementOrRadioNodeList\n  public external
interface UnionHTMLOptGroupElementOrHTMLOptionElement\n  public external interface
UnionAudioTrackOrTextTrackOrVideoTrack\n  public external interface UnionElementOrMouseEvent\n  public
external interface UnionMessagePortOrWindowProxy\n  public external interface MediaProvider\n  public
external interface RenderingContext\n  public external interface HTMLOrSVGImageElement :
CanvasImageSource\n  public external interface CanvasImageSource : ImageBitmapSource\n  public external

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interface ImageBitmapSource\n\npublic external interface HTMLOrSVGScriptElement\n\n/* please, don't
implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface DocumentReadyState {\n  companion object\n}\n\npublic inline val
DocumentReadyState.Companion.LOADING: DocumentReadyState get() =
"loading".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic
inline val DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() =
"interactive".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val
DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() =
"complete".asDynamic().unsafeCast<DocumentReadyState>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface CanPlayTypeResult {\n  companion object\n}\n\npublic inline val
CanPlayTypeResult.Companion.EMPTY: CanPlayTypeResult get() =
"".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val CanPlayTypeResult.Companion.MAYBE:
CanPlayTypeResult get() = "maybe".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val
CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() =
"probably".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic
external interface TextTrackMode {\n  companion object\n}\n\npublic inline val
TextTrackMode.Companion.DISABLED: TextTrackMode get() =
"disabled".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.HIDDEN: TextTrackMode get() =
"hidden".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.SHOWING: TextTrackMode get() =
"showing".asDynamic().unsafeCast<TextTrackMode>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface TextTrackKind {\n  companion object\n}\n\npublic inline val TextTrackKind.Companion.SUBTITLES:
TextTrackKind get() = "subtitles".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CAPTIONS: TextTrackKind get() =
"captions".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.DESCRPTIONS: TextTrackKind get() =
"descriptions".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CHAPTERS: TextTrackKind get() =
"chapters".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.METADATA: TextTrackKind get() =
"metadata".asDynamic().unsafeCast<TextTrackKind>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface SelectionMode {\n  companion object\n}\n\npublic inline val SelectionMode.Companion.SELECT:
SelectionMode get() = "select".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val
SelectionMode.Companion.START: SelectionMode get() =
"start".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.END:
SelectionMode get() = "end".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val
SelectionMode.Companion.PRESERVE: SelectionMode get() =
"preserve".asDynamic().unsafeCast<SelectionMode>()\n\n/*
please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface CanvasFillRule {\n  companion object\n}\n\npublic inline val CanvasFillRule.Companion.NONZERO:
CanvasFillRule get() = "nonzero".asDynamic().unsafeCast<CanvasFillRule>()\n\npublic inline val

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CanvasFillRule.Companion.EVENODD: CanvasFillRule get() =
    \"evenodd\".asDynamic().unsafeCast<CanvasFillRule>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ImageSmoothingQuality {\n    companion object\n}\n\npublic inline val
ImageSmoothingQuality.Companion.LOW: ImageSmoothingQuality get() =
    \"low\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() =
    \"medium\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.HIGH:
    ImageSmoothingQuality get() = \"high\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\n/* please, don't
implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface CanvasLineCap {\n    companion object\n}\n\npublic inline val CanvasLineCap.Companion.BUTT:
CanvasLineCap get() = \"butt\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val
CanvasLineCap.Companion.ROUND: CanvasLineCap get() =
    \"round\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val CanvasLineCap.Companion.SQUARE:
CanvasLineCap get() = \"square\".asDynamic().unsafeCast<CanvasLineCap>()\n\n/* please, don't implement this
interface! *\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic
external interface CanvasLineJoin {\n    companion object\n}\n\npublic inline val
CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() =
    \"round\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.BEVEL:
CanvasLineJoin get() = \"bevel\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val
CanvasLineJoin.Companion.MITER: CanvasLineJoin get() =
    \"miter\".asDynamic().unsafeCast<CanvasLineJoin>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface CanvasTextAlign {\n    companion object\n}\n\npublic inline val CanvasTextAlign.Companion.START:
CanvasTextAlign get() = \"start\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.END: CanvasTextAlign get() =
    \"end\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.LEFT:
CanvasTextAlign get() = \"left\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.RIGHT: CanvasTextAlign get() =
    \"right\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() =
    \"center\".asDynamic().unsafeCast<CanvasTextAlign>()\n\n/*
please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface CanvasTextBaseline {\n    companion object\n}\n\npublic inline val CanvasTextBaseline.Companion.TOP:
CanvasTextBaseline get() = \"top\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() =
    \"hanging\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() =
    \"middle\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =
    \"alphabetic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() =
    \"ideographic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.BOTTOM:

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CanvasTextBaseline get() = \"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\n/* please, don't
implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface CanvasDirection {\n  companion object\n}\n\npublic inline val CanvasDirection.Companion.LTR:
CanvasDirection get() = \"ltr\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val
CanvasDirection.Companion.RTL: CanvasDirection get() =
\"rtl\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.INHERIT:
CanvasDirection get() = \"inherit\".asDynamic().unsafeCast<CanvasDirection>()\n\n/* please, don't implement this
interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic
external interface ScrollRestoration {\n  companion object\n}\n\npublic inline val
ScrollRestoration.Companion.AUTO: ScrollRestoration get() =
\"auto\".asDynamic().unsafeCast<ScrollRestoration>()\n\npublic
inline val ScrollRestoration.Companion.MANUAL: ScrollRestoration get() =
\"manual\".asDynamic().unsafeCast<ScrollRestoration>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ImageOrientation {\n  companion object\n}\n\npublic inline val ImageOrientation.Companion.NONE:
ImageOrientation get() = \"none\".asDynamic().unsafeCast<ImageOrientation>()\n\npublic inline val
ImageOrientation.Companion.FLIPY: ImageOrientation get() =
\"flipY\".asDynamic().unsafeCast<ImageOrientation>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface PremultiplyAlpha {\n  companion object\n}\n\npublic inline val PremultiplyAlpha.Companion.NONE:
PremultiplyAlpha get() = \"none\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get()
= \"premultiply\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.DEFAULT: PremultiplyAlpha get() =
\"default\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ColorSpaceConversion {\n  companion object\n}\n\npublic inline val
ColorSpaceConversion.Companion.NONE: ColorSpaceConversion get() =
\"none\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\npublic inline val
ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion get() =
\"default\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ResizeQuality {\n  companion object\n}\n\npublic inline val ResizeQuality.Companion.PIXELATED:
ResizeQuality get() = \"pixelated\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic
inline val ResizeQuality.Companion.LOW: ResizeQuality get() =
\"low\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.MEDIUM:
ResizeQuality get() = \"medium\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.HIGH: ResizeQuality get() = \"high\".asDynamic().unsafeCast<ResizeQuality>()\n\n/*
please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface BinaryType {\n  companion object\n}\n\npublic inline val BinaryType.Companion.BLOB: BinaryType
get() = \"blob\".asDynamic().unsafeCast<BinaryType>()\n\npublic inline val
BinaryType.Companion.ARRAYBUFFER: BinaryType get() =
\"arraybuffer\".asDynamic().unsafeCast<BinaryType>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface WorkerType {\n  companion object\n}\n\npublic inline val

```

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WorkerType.Companion.CLASSIC: WorkerType get() =
\"classic\".asDynamic().unsafeCast<WorkerType>()\n\npublic inline val WorkerType.Companion.MODULE:
WorkerType get() = \"module\".asDynamic().unsafeCast<WorkerType>()\n\n/* please, don't implement this
interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic
external interface ShadowRootMode {\n    companion object\n}\n\npublic inline val
ShadowRootMode.Companion.OPEN: ShadowRootMode get() =
\"open\".asDynamic().unsafeCast<ShadowRootMode>()\n\npublic inline val
ShadowRootMode.Companion.CLOSED: ShadowRootMode get() =
\"closed\".asDynamic().unsafeCast<ShadowRootMode>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ScrollBehavior {\n    companion object\n}\n\npublic inline val ScrollBehavior.Companion.AUTO:
ScrollBehavior get() = \"auto\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val
ScrollBehavior.Companion.INSTANT:
ScrollBehavior get() = \"instant\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val
ScrollBehavior.Companion.SMOOTH: ScrollBehavior get() =
\"smooth\".asDynamic().unsafeCast<ScrollBehavior>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ScrollLogicalPosition {\n    companion object\n}\n\npublic inline val
ScrollLogicalPosition.Companion.START: ScrollLogicalPosition get() =
\"start\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() =
\"center\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() =
\"end\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() =
\"nearest\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n/*
please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface CSSBoxType {\n    companion object\n}\n\npublic inline val CSSBoxType.Companion.MARGIN:
CSSBoxType get() = \"margin\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.BORDER: CSSBoxType get() =
\"border\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.PADDING:
CSSBoxType get() = \"padding\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.CONTENT: CSSBoxType get() =
\"content\".asDynamic().unsafeCast<CSSBoxType>()
}

/* Copyright 2010-2022 JetBrains s.r.o. and Kotlin
Programming Language contributors.
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found in the license/LICENSE.txt file.
NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
See github.com/kotlin/dukat for details
*/
package org.w3c.fetch\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.files.*\nimport org.w3c.xhr.*\n\n/* Exposes the
JavaScript [Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin
*/\n\npublic external open
class Headers(init: dynamic = definedExternally) {\n    fun append(name: String, value: String)\n    fun
delete(name: String)\n    fun get(name: String): String?\n    fun has(name: String): Boolean\n    fun
set(name: String, value: String)\n}\n\n/* Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to
Kotlin
*/\n\npublic external interface Body {\n    val bodyUsed: Boolean\n    fun arrayBuffer():
Promise<ArrayBuffer>\n    fun blob(): Promise<Blob>\n    fun formData(): Promise<FormData>\n    fun
json(): Promise<Any?>\n    fun text(): Promise<String>\n}\n\n/* Exposes the JavaScript
[Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin
*/\n\npublic external open class
Request(input: dynamic,

```

```

init: RequestInit = definedExternally) : Body {
    open val method: String
    open val url: String
    open val headers: Headers
    open val type: RequestType
    open val destination: RequestDestination
    open val referrer: String
    open val referrerPolicy: dynamic
    open val mode: RequestMode
    open val credentials: RequestCredentials
    open val cache: RequestCache
    open val redirect: RequestRedirect
    open val integrity: String
    open val keepalive: Boolean
    override val bodyUsed: Boolean
    fun clone(): Request
    override fun arrayBuffer(): Promise<ArrayBuffer>
    override fun blob(): Promise<Blob>
    override fun formData(): Promise<FormData>
    override fun json(): Promise<Any?>
    override fun text(): Promise<String>
}

public external interface RequestInit {
    var method: String?
    get() = definedExternally
    set(value) = definedExternally
    var headers: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var body: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var referrer: String?
    get() = definedExternally
    set(value) = definedExternally
    var referrerPolicy: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var mode: RequestMode?
    get() = definedExternally
    set(value) = definedExternally
    var credentials: RequestCredentials?
    get() = definedExternally
    set(value) = definedExternally
    var cache: RequestCache?
    get() = definedExternally
    set(value) = definedExternally
    var redirect: RequestRedirect?
    get() = definedExternally
    set(value) = definedExternally
    var integrity: String?
    get() = definedExternally
    set(value) = definedExternally
    var keepalive: Boolean?
    get() = definedExternally
    set(value) = definedExternally
    var window: Any?
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun RequestInit(method: String? = undefined, headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy: dynamic = undefined, mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache: RequestCache? = undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive: Boolean? = undefined, window: Any? = undefined): RequestInit {
    val o = js("{}")
    o["method"] = method
    o["headers"] = headers
    o["body"] = body
    o["referrer"] = referrer
    o["referrerPolicy"] = referrerPolicy
    o["mode"] = mode
    o["credentials"] = credentials
    o["cache"] = cache
    o["redirect"] = redirect
    o["integrity"] = integrity
    o["keepalive"] = keepalive
    o["window"] = window
    return o
}

/** Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin */
public external open class Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally) : Body {
    open val type: ResponseType
    open val url: String
    open val redirected: Boolean
    open val status: Short
    open val ok: Boolean
    open val statusText: String
    open val headers: Headers
    open val body: dynamic
    open val trailer: Promise<Headers>
    override val bodyUsed: Boolean
    fun clone(): Response
    override fun arrayBuffer(): Promise<ArrayBuffer>
    override fun blob(): Promise<Blob>
    override fun formData(): Promise<FormData>
    override fun json(): Promise<Any?>
    override fun text(): Promise<String>
}

companion object {
    fun error(): Response
    fun redirect(url: String, status: Short = definedExternally): Response
}

public external interface ResponseInit {
    var status: Short? /* = 200 */
    get() = definedExternally
    set(value) = definedExternally
    var statusText: String? /* = "OK" */
    get() = definedExternally
    set(value) = definedExternally
    var headers: dynamic
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun ResponseInit(status: Short? = 200, statusText: String? = "OK", headers: dynamic = undefined): ResponseInit {
    val o = js("{}")
    o["status"] = status
    o["statusText"] = statusText
    o["headers"] = headers
    return o
}

/* please, don't implement this interface! */
@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestType {
    companion object
}

public inline val RequestType.Companion.EMPTY: RequestType
get() = "".asDynamic().unsafeCast<RequestType>()
public

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inline val RequestType.Companion.AUDIO: RequestType get() =
\"audio\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.FONT:
RequestType get() = \"font\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.IMAGE: RequestType get() =
\"image\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.SCRIPT:
RequestType get() = \"script\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.STYLE: RequestType get() =
\"style\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.TRACK:
RequestType get() = \"track\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.VIDEO: RequestType get() = \"video\".asDynamic().unsafeCast<RequestType>()\n\n/*
please, don't implement this interface!
*/\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface RequestDestination
{\n  companion object\n}\n\npublic inline val RequestDestination.Companion.EMPTY: RequestDestination get()
= \"\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.DOCUMENT: RequestDestination get() =
\"document\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.EMBED: RequestDestination get() =
\"embed\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.FONT: RequestDestination get() =
\"font\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.IMAGE: RequestDestination get() =
\"image\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.MANIFEST: RequestDestination get() =
\"manifest\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.MEDIA: RequestDestination get() =
\"media\".asDynamic().unsafeCast<RequestDestination>()\n\npublic
inline val RequestDestination.Companion.OBJECT: RequestDestination get() =
\"object\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.REPORT: RequestDestination get() =
\"report\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SCRIPT: RequestDestination get() =
\"script\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SERVICEWORKER: RequestDestination get() =
\"serviceworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SHAREDWORKER: RequestDestination get() =
\"sharedworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.STYLE: RequestDestination get() =
\"style\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.WORKER: RequestDestination get() =
\"worker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic
inline val RequestDestination.Companion.XSLT: RequestDestination get() =
\"xslt\".asDynamic().unsafeCast<RequestDestination>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface RequestMode {\n  companion object\n}\n\npublic inline val RequestMode.Companion.NAVIGATE:
RequestMode get() = \"navigate\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.SAME_ORIGIN: RequestMode get() = \"same-
origin\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.NO_CORS:

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RequestMode get() = \"no-cors\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.CORS: RequestMode get() = \"cors\".asDynamic().unsafeCast<RequestMode>()\n\n/*
please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface RequestCredentials
{
    companion object\n}\n\npublic inline val RequestCredentials.Companion.OMIT: RequestCredentials get() =
\"omit\".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = \"same-
origin\".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.INCLUDE: RequestCredentials get() =
\"include\".asDynamic().unsafeCast<RequestCredentials>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface RequestCache {
    companion object\n}\n\npublic inline val RequestCache.Companion.DEFAULT:
RequestCache get() = \"default\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.NO_STORE: RequestCache get() = \"no-
store\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.RELOAD:
RequestCache get() = \"reload\".asDynamic().unsafeCast<RequestCache>()\n\npublic
inline val RequestCache.Companion.NO_CACHE: RequestCache get() = \"no-
cache\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.FORCE_CACHE: RequestCache get() = \"force-
cache\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = \"only-if-
cached\".asDynamic().unsafeCast<RequestCache>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface RequestRedirect {
    companion object\n}\n\npublic inline val RequestRedirect.Companion.FOLLOW:
RequestRedirect get() = \"follow\".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val
RequestRedirect.Companion.ERROR: RequestRedirect get() =
\"error\".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.MANUAL:
RequestRedirect get() = \"manual\".asDynamic().unsafeCast<RequestRedirect>()\n\n/*
please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ResponseType {
    companion object\n}\n\npublic inline val ResponseType.Companion.BASIC:
ResponseType get() = \"basic\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.CORS: ResponseType get() =
\"cors\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.DEFAULT:
ResponseType get() = \"default\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.ERROR: ResponseType get() =
\"error\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.OPAQUE:
ResponseType get() = \"opaque\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() =
\"opaqueredirect\".asDynamic().unsafeCast<ResponseType>()), /*\n\n * Copyright 2010-2022 JetBrains s.r.o. and
Kotlin Programming
Language contributors.\n\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediacapture\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/*\n\n * Exposes the JavaScript
[MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\n\n */\n\npublic external open
class MediaStream() : EventTarget, MediaProvider {
    constructor(stream: MediaStream)\n    constructor(tracks:

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Array<MediaStreamTrack>)\n open val id: String\n open val active: Boolean\n var onaddtrack:
((MediaStreamTrackEvent) -> dynamic)?\n var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?\n fun
getAudioTracks(): Array<MediaStreamTrack>\n fun getVideoTracks(): Array<MediaStreamTrack>\n fun
getTracks(): Array<MediaStreamTrack>\n
fun getTrackById(trackId: String): MediaStreamTrack?\n fun addTrack(track: MediaStreamTrack)\n fun
removeTrack(track: MediaStreamTrack)\n fun clone(): MediaStream\n}\n\n**\n * Exposes the JavaScript
[MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin\n *\npublic
external abstract class MediaStreamTrack : EventTarget {\n open val kind: String\n open val id: String\n open
val label: String\n open var enabled: Boolean\n open val muted: Boolean\n open var onmute: ((Event) ->
dynamic)?\n open var onunmute: ((Event) -> dynamic)?\n open val readyState: MediaStreamTrackState\n
open var onended: ((Event) -> dynamic)?\n open var onoverconstrained: ((Event) -> dynamic)?\n fun clone():
MediaStreamTrack\n fun stop()\n fun getCapabilities(): MediaTrackCapabilities\n fun getConstraints():
MediaTrackConstraints\n fun getSettings(): MediaTrackSettings\n fun applyConstraints(constraints:
MediaTrackConstraints
= definedExternally): Promise<Unit>\n}\n\n**\n * Exposes the JavaScript
[MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstrain
ts) to Kotlin\n *\npublic external interface MediaTrackSupportedConstraints {\n var width: Boolean? /* = true
*/\n get() = definedExternally\n set(value) = definedExternally\n var height: Boolean? /* = true */\n
get() = definedExternally\n set(value) = definedExternally\n var aspectRatio: Boolean? /* = true */\n get()
= definedExternally\n set(value) = definedExternally\n var frameRate: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var facingMode: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var resizeMode: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var volume: Boolean? /* = true */\n
get() = definedExternally\n set(value) = definedExternally\n var sampleRate: Boolean? /* = true */\n
get() = definedExternally\n set(value) = definedExternally\n var sampleSize: Boolean? /* = true */\n get()
= definedExternally\n set(value) = definedExternally\n var echoCancellation: Boolean? /* = true */\n
get() = definedExternally\n set(value) = definedExternally\n var autoGainControl: Boolean? /* = true */\n
get() = definedExternally\n set(value) = definedExternally\n var noiseSuppression: Boolean? /* = true */\n
get() = definedExternally\n set(value) = definedExternally\n var latency: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var channelCount: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var deviceId: Boolean? /* = true */\n get() =
definedExternally\n
set(value) = definedExternally\n var groupId: Boolean? /* = true */\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun
MediaTrackSupportedConstraints(width: Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true,
frameRate: Boolean? = true, facingMode: Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true,
sampleRate: Boolean? = true, sampleSize: Boolean? = true, echoCancellation: Boolean? = true, autoGainControl:
Boolean? = true, noiseSuppression: Boolean? = true, latency: Boolean? = true, channelCount: Boolean? = true,
deviceId: Boolean? = true, groupId: Boolean? = true): MediaTrackSupportedConstraints {\n val o = js("{}")\n
o["width"] = width\n o["height"] = height\n o["aspectRatio"] = aspectRatio\n o["frameRate"] =
frameRate\n o["facingMode"] = facingMode\n o["resizeMode"] =
resizeMode\n o["volume"] = volume\n o["sampleRate"] = sampleRate\n o["sampleSize"] = sampleSize\n
o["echoCancellation"] = echoCancellation\n o["autoGainControl"] = autoGainControl\n
o["noiseSuppression"] = noiseSuppression\n o["latency"] = latency\n o["channelCount"] = channelCount\n
o["deviceId"] = deviceId\n o["groupId"] = groupId\n return o\n}\n\npublic external interface
MediaTrackCapabilities {\n var width: ULongRange?\n get() = definedExternally\n set(value) =
definedExternally\n var height: ULongRange?\n get() = definedExternally\n set(value) =

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definedExternally\n    var aspectRatio: DoubleRange?\n        get() = definedExternally\n        set(value) =
definedExternally\n    var frameRate: DoubleRange?\n        get() = definedExternally\n        set(value) =
definedExternally\n    var facingMode: Array<String>?\n        get() = definedExternally\n        set(value) =
definedExternally\n    var
    resizeMode: Array<String>?\n        get() = definedExternally\n        set(value) = definedExternally\n    var volume:
DoubleRange?\n        get() = definedExternally\n        set(value) = definedExternally\n    var sampleRate:
ULongRange?\n        get() = definedExternally\n        set(value) = definedExternally\n    var sampleSize:
ULongRange?\n        get() = definedExternally\n        set(value) = definedExternally\n    var echoCancellation:
Array<Boolean>?\n        get() = definedExternally\n        set(value) = definedExternally\n    var autoGainControl:
Array<Boolean>?\n        get() = definedExternally\n        set(value) = definedExternally\n    var noiseSuppression:
Array<Boolean>?\n        get() = definedExternally\n        set(value) = definedExternally\n    var latency:
DoubleRange?\n        get() = definedExternally\n        set(value) = definedExternally\n    var channelCount:
ULongRange?\n        get() = definedExternally\n        set(value) = definedExternally\n    var
deviceId: String?\n        get() = definedExternally\n        set(value) = definedExternally\n    var groupId: String?\n
get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackCapabilities(width:
ULongRange? = undefined, height: ULongRange? = undefined, aspectRatio: DoubleRange? = undefined,
frameRate: DoubleRange? = undefined, facingMode: Array<String>? = undefined, resizeMode: Array<String>? =
undefined, volume: DoubleRange? = undefined, sampleRate: ULongRange? = undefined, sampleSize:
ULongRange? = undefined, echoCancellation: Array<Boolean>? = undefined, autoGainControl: Array<Boolean>?
= undefined, noiseSuppression: Array<Boolean>? = undefined, latency: DoubleRange? = undefined, channelCount:
ULongRange? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackCapabilities
{\n    val o = js(\"({})\")\n    o[\"width\"]
= width\n    o[\"height\"] = height\n    o[\"aspectRatio\"] = aspectRatio\n    o[\"frameRate\"] = frameRate\n
o[\"facingMode\"] = facingMode\n    o[\"resizeMode\"] = resizeMode\n    o[\"volume\"] = volume\n
o[\"sampleRate\"] = sampleRate\n    o[\"sampleSize\"] = sampleSize\n    o[\"echoCancellation\"] =
echoCancellation\n    o[\"autoGainControl\"] = autoGainControl\n    o[\"noiseSuppression\"] = noiseSuppression\n
o[\"latency\"] = latency\n    o[\"channelCount\"] = channelCount\n    o[\"deviceId\"] = deviceId\n    o[\"groupId\"] =
groupId\n    return o\n}\n\n/**\n * Exposes the JavaScript
[MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin\n
*\npublic external interface MediaTrackConstraints : MediaTrackConstraintSet {\n    var advanced:
Array<MediaTrackConstraintSet>?\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic
inline fun MediaTrackConstraints(advanced: Array<MediaTrackConstraintSet>? = undefined, width: dynamic =
undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic = undefined,
facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate:
dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl:
dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount:
dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraints {\n
val o = js(\"({})\")\n    o[\"advanced\"] = advanced\n    o[\"width\"] = width\n    o[\"height\"] = height\n
o[\"aspectRatio\"] = aspectRatio\n    o[\"frameRate\"] = frameRate\n    o[\"facingMode\"] = facingMode\n
o[\"resizeMode\"] = resizeMode\n    o[\"volume\"] = volume\n    o[\"sampleRate\"] = sampleRate\n
o[\"sampleSize\"]
= sampleSize\n    o[\"echoCancellation\"] = echoCancellation\n    o[\"autoGainControl\"] = autoGainControl\n
o[\"noiseSuppression\"] = noiseSuppression\n    o[\"latency\"] = latency\n    o[\"channelCount\"] = channelCount\n
o[\"deviceId\"] = deviceId\n    o[\"groupId\"] = groupId\n    return o\n}\n\npublic external interface
MediaTrackConstraintSet {\n    var width: dynamic\n        get() = definedExternally\n        set(value) =

```



```

definedExternally\n    var height: dynamic\n        get() = definedExternally\n        set(value) = definedExternally\n
var aspectRatio: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n    var frameRate:
dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n    var facingMode: dynamic\n
get() = definedExternally\n    set(value) = definedExternally\n    var resizeMode: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n    var volume: dynamic\n
    get() = definedExternally\n    set(value) = definedExternally\n    var sampleRate: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n    var sampleSize: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n    var echoCancellation: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n    var autoGainControl: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n    var noiseSuppression: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n    var latency: dynamic\n    get() = definedExternally\n
    set(value) = definedExternally\n    var channelCount: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n    var deviceId: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n
var groupId: dynamic\n    get() = definedExternally\n    set(value)
= definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun MediaTrackConstraintSet(width:
dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic =
undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined,
sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined,
autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined,
channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined):
MediaTrackConstraintSet {\n    val o = js("{}")\n    o["width"] = width\n    o["height"] = height\n
o["aspectRatio"] = aspectRatio\n    o["frameRate"] = frameRate\n    o["facingMode"] = facingMode\n
o["resizeMode"] = resizeMode\n    o["volume"] = volume\n    o["sampleRate"] = sampleRate\n
    o["sampleSize"] = sampleSize\n    o["echoCancellation"] = echoCancellation\n    o["autoGainControl"] =
autoGainControl\n    o["noiseSuppression"] = noiseSuppression\n    o["latency"] = latency\n
o["channelCount"] = channelCount\n    o["deviceId"] = deviceId\n    o["groupId"] = groupId\n    return
o\n}\n\n/**\n * Exposes the JavaScript
[MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin\n\n*\n\npublic
external interface MediaTrackSettings {\n    var width: Int?\n        get() = definedExternally\n        set(value) =
definedExternally\n    var height: Int?\n        get() = definedExternally\n        set(value) = definedExternally\n
var aspectRatio: Double?\n        get() = definedExternally\n        set(value) = definedExternally\n    var frameRate:
Double?\n        get() = definedExternally\n        set(value) = definedExternally\n    var facingMode: String?\n
get() = definedExternally\n        set(value) = definedExternally\n
    var resizeMode: String?\n        get() = definedExternally\n        set(value) = definedExternally\n    var volume:
Double?\n        get() = definedExternally\n        set(value) = definedExternally\n    var sampleRate: Int?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var sampleSize: Int?\n        get() = definedExternally\n
set(value) = definedExternally\n    var echoCancellation: Boolean?\n        get() = definedExternally\n
set(value) = definedExternally\n    var autoGainControl: Boolean?\n        get() = definedExternally\n        set(value)
= definedExternally\n    var noiseSuppression: Boolean?\n        get() = definedExternally\n        set(value) =
definedExternally\n    var latency: Double?\n        get() = definedExternally\n        set(value) = definedExternally\n
var channelCount: Int?\n        get() = definedExternally\n        set(value) = definedExternally\n    var deviceId:
String?\n        get()
= definedExternally\n        set(value) = definedExternally\n    var groupId: String?\n        get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun MediaTrackSettings(width: Int? =
undefined, height: Int? = undefined, aspectRatio: Double? = undefined, frameRate: Double? = undefined,
facingMode: String? = undefined, resizeMode: String? = undefined, volume: Double? = undefined, sampleRate: Int?

```

```

= undefined, sampleSize: Int? = undefined, echoCancellation: Boolean? = undefined, autoGainControl: Boolean? =
undefined, noiseSuppression: Boolean? = undefined, latency: Double? = undefined, channelCount: Int? = undefined,
deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings {\n  val o = js("{}")\n
o["width"] = width\n  o["height"] = height\n  o["aspectRatio"] = aspectRatio\n  o["frameRate"] =
frameRate\n  o["facingMode"]
= facingMode\n  o["resizeMode"] = resizeMode\n  o["volume"] = volume\n  o["sampleRate"] =
sampleRate\n  o["sampleSize"] = sampleSize\n  o["echoCancellation"] = echoCancellation\n
o["autoGainControl"] = autoGainControl\n  o["noiseSuppression"] = noiseSuppression\n  o["latency"] =
latency\n  o["channelCount"] = channelCount\n  o["deviceId"] = deviceId\n  o["groupId"] = groupId\n
return o}\n\n/**\n * Exposes the JavaScript
[MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin\n
*/\npublic external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) :
Event {\n  open val track: MediaStreamTrack\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface MediaStreamTrackEventInit : EventInit {\n  var track:
MediaStreamTrack?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun MediaStreamTrackEventInit(track:
MediaStreamTrack?, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
MediaStreamTrackEventInit {\n  val o = js("{}")\n  o["track"] = track\n  o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o}\n\npublic external open class
OverconstrainedErrorEvent(type: String, eventInitDict: OverconstrainedErrorEventInit) : Event {\n  open val error:
dynamic\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val
AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface
OverconstrainedErrorEventInit : EventInit {\n  var error: dynamic /* = null */\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic
inline fun OverconstrainedErrorEventInit(error: dynamic = null, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): OverconstrainedErrorEventInit {\n  val o = js("{}")\n  o["error"] =
error\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return
o}\n\n/**\n * Exposes the JavaScript
[MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin\n
*/\npublic external
abstract class MediaDevices : EventTarget {\n  open var ondevicechange: ((Event) -> dynamic)?\n  fun
enumerateDevices(): Promise<Array<MediaDeviceInfo>>\n  fun getSupportedConstraints():
MediaTrackSupportedConstraints\n  fun getUserMedia(constraints: MediaStreamConstraints = definedExternally):
Promise<MediaStream>\n}\n\n/**\n * Exposes the JavaScript
[MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin\n
*/\npublic
external abstract class MediaDeviceInfo {\n  open val deviceId: String\n  open val kind: MediaDeviceKind\n
open val label: String\n  open val groupId: String\n  fun toJSON(): dynamic\n}\n\npublic external abstract class
InputDeviceInfo : MediaDeviceInfo {\n  fun getCapabilities(): MediaTrackCapabilities\n}\n\n/**\n * Exposes the
JavaScript [MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints) to
Kotlin\n
*/\npublic external interface MediaStreamConstraints {\n  var video: dynamic /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var audio: dynamic /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun MediaStreamConstraints(video:
dynamic = false, audio: dynamic = false): MediaStreamConstraints {\n  val o = js("{}")\n  o["video"]
= video\n  o["audio"] = audio\n  return o}\n\npublic external interface ConstrainsablePattern {\n  var
onoverconstrained: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n
fun getCapabilities(): Capabilities\n  fun getConstraints(): Constraints\n  fun getSettings(): Settings\n  fun

```



```

external interface Constraints : ConstraintSet {\n    var advanced: Array<ConstraintSet>?\n        get() =
definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n@kotlin.internal.InlineOnly\npublic inline fun Constraints(advanced:
Array<ConstraintSet>? = undefined): Constraints {\n    val o = js(\\"({})\\")\n    o[\"advanced\"] = advanced\nreturn o\n}\n\n/* please, don't implement this interface!
*\n@JsName(\\"null\\")\n@Suppress(\\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\\")\npublic external
interface MediaStreamTrackState {\n    companion object\n}\n\npublic inline val
MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState get() =
\\"live\\".asDynamic().unsafeCast<MediaStreamTrackState>()\n\npublic inline val
MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() =
\\"ended\\".asDynamic().unsafeCast<MediaStreamTrackState>()\n\n/* please, don't implement this interface!
*\n@JsName(\\"null\\")\n@Suppress(\\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\\")\npublic
external interface VideoFacingModeEnum {\n    companion object\n}\n\npublic inline val
VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() =
\\"user\\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.ENVIRONMENT: VideoFacingModeEnum get() =
\\"environment\\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() =
\\"left\\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() =
\\"right\\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\n/* please, don't implement this interface!
*\n@JsName(\\"null\\")\n@Suppress(\\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\\")\npublic external
interface VideoResizeModeEnum {\n    companion object\n}\n\npublic inline val
VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() =
\\"none\\".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\npublic
inline val VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = \\"crop-and-
scale\\".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\n/* please, don't implement this interface!
*\n@JsName(\\"null\\")\n@Suppress(\\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\\")\npublic external
interface MediaDeviceKind {\n    companion object\n}\n\npublic inline val
MediaDeviceKind.Companion.AUDIOINPUT: MediaDeviceKind get() =
\\"audioinput\\".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val
MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() =
\\"audiooutput\\".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val
MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() =
\\"videoinput\\".asDynamic().unsafeCast<MediaDeviceKind>()\n\n/*\n * Copyright 2010-2022 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt
file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for
details\n\npackage org.w3c.dom.mediasource\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/*\n * Exposes the JavaScript
[MediaSource](https://developer.mozilla.org/en/docs/Web/API/MediaSource) to Kotlin\n *\n\npublic external open
class MediaSource : EventTarget, MediaProvider {\n    open val sourceBuffers: SourceBufferList\n    open val
activeSourceBuffers: SourceBufferList\n    open val readyState: ReadyState\n    var duration: Double\n    var
onsourceopen: ((Event) -> dynamic)?\n    var onsourceended: ((Event) -> dynamic)?\n    var onsourceclose: ((Event)
-> dynamic)?\n    fun addSourceBuffer(type: String): SourceBuffer\n    fun removeSourceBuffer(sourceBuffer:
SourceBuffer)\n    fun endOfStream(error: EndOfStreamError = definedExternally)\n    fun
setLiveSeekableRange(start: Double, end: Double)\n    fun clearLiveSeekableRange()\n\n}

```

```

companion object {
    fun isTypeSupported(type: String): Boolean
}
/** Exposes the JavaScript
[SourceBuffer](https://developer.mozilla.org/en/docs/Web/API/SourceBuffer) to Kotlin
*/
@public external
abstract class SourceBuffer : EventTarget {
    open var mode: AppendMode
    open val updating: Boolean
    open val buffered: TimeRanges
    open var timestampOffset: Double
    open val audioTracks: AudioTrackList
    open val videoTracks: VideoTrackList
    open val textTracks: TextTrackList
    open var appendWindowStart:
Double
    open var appendWindowEnd: Double
    open var onupdatestart: ((Event) -> dynamic)?
    open var
onupdate: ((Event) -> dynamic)?
    open var onupdateend: ((Event) -> dynamic)?
    open var onerror: ((Event) ->
dynamic)?
    open var onabort: ((Event) -> dynamic)?
    fun appendBuffer(data: dynamic)
    fun abort()
    fun
remove(start: Double, end: Double)
}
/** Exposes the JavaScript
[SourceBufferList](https://developer.mozilla.org/en/docs/Web/API/SourceBufferList)
to Kotlin
*/
@public external abstract class SourceBufferList : EventTarget {
    open val length: Int
    open var
onaddsourcebuffer: ((Event) -> dynamic)?
    open var onremovesourcebuffer: ((Event) ->
dynamic)?
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
@public inline operator fun SourceBufferList.get(index:
Int): SourceBuffer? = asDynamic()[index]
/** please, don't implement this interface!
*/
@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
@public external
interface ReadyState {
    companion object
}
@public inline val ReadyState.Companion.CLOSED: ReadyState
get() = "closed".asDynamic().unsafeCast<ReadyState>()
@public inline val ReadyState.Companion.OPEN:
ReadyState
get() = "open".asDynamic().unsafeCast<ReadyState>()
@public inline val
ReadyState.Companion.ENDED: ReadyState
get() = "ended".asDynamic().unsafeCast<ReadyState>()
/**
please, don't implement this interface!
*/
@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
@public external
interface EndOfStreamError {
    companion object
}
@public inline val
EndOfStreamError.Companion.NETWORK: EndOfStreamError
get() =
"network".asDynamic().unsafeCast<EndOfStreamError>()
@public inline val
EndOfStreamError.Companion.DECODE: EndOfStreamError
get() =
"decode".asDynamic().unsafeCast<EndOfStreamError>()
/** please, don't implement this interface!
*/
@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
@public external
interface AppendMode {
    companion object
}
@public inline val AppendMode.Companion.SEGMENTS:
AppendMode
get() = "segments".asDynamic().unsafeCast<AppendMode>()
@public inline val
AppendMode.Companion.SEQUENCE: AppendMode
get() =
"sequence".asDynamic().unsafeCast<AppendMode>()
/* Copyright 2010-2022 JetBrains s.r.o. and Kotlin
Programming Language contributors.
*/
/* Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
*/
NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
See github.com/kotlin/dukat for
details
package org.w3c.dom.pointerevents
import kotlin.js.*
import org.khronos.webgl.*
import
org.w3c.dom.*
import org.w3c.dom.events.*
@public external interface PointerEventInit : MouseEventInit {
    var pointerId: Int? /* = 0 */
    get() = definedExternally
    set(value) = definedExternally
    var width:
Double? /* = 1.0 */
    get() = definedExternally
    set(value) = definedExternally
    var height: Double? /*
= 1.0 */
    get() = definedExternally
    set(value) = definedExternally
    var pressure: Float? /* = 0f */
    get() = definedExternally
    set(value) = definedExternally
    var tangentialPressure: Float? /* = 0f */
    get() = definedExternally
    set(value) = definedExternally
    var tiltX: Int? /*
= 0 */
    get() = definedExternally
    set(value) = definedExternally
    var tiltY: Int? /* = 0 */
    get() =
definedExternally
    set(value) = definedExternally
    var twist: Int? /* = 0 */
    get() = definedExternally
    set(value) = definedExternally
    var pointerType: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
    var isPrimary: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
@public inline fun PointerEventInit(pointerId: Int? = 0,

```

```

width: Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f, tangentialPressure: Float? = 0f, tiltX: Int? = 0,
tiltY: Int? = 0, twist: Int? = 0, pointerType: String? = "", isPrimary: Boolean? = false, screenX: Int? = 0, screenY:
Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short?
= 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? =
false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,
modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): PointerEventInit {\n  val o = js("{}")\n  o["pointerId"] = pointerId\n  o["width"] = width\n
o["height"] = height\n  o["pressure"] = pressure\n  o["tangentialPressure"] = tangentialPressure\n
o["tiltX"] = tiltX\n  o["tiltY"] = tiltY\n  o["twist"] = twist\n  o["pointerType"] = pointerType\n
o["isPrimary"]
= isPrimary\n  o["screenX"] = screenX\n  o["screenY"] = screenY\n  o["clientX"] = clientX\n
o["clientY"] = clientY\n  o["button"] = button\n  o["buttons"] = buttons\n  o["relatedTarget"] =
relatedTarget\n  o["region"] = region\n  o["ctrlKey"] = ctrlKey\n  o["shiftKey"] = shiftKey\n  o["altKey"]
= altKey\n  o["metaKey"] = metaKey\n  o["modifierAltGraph"] = modifierAltGraph\n
o["modifierCapsLock"] = modifierCapsLock\n  o["modifierFn"] = modifierFn\n  o["modifierFnLock"] =
modifierFnLock\n  o["modifierHyper"] = modifierHyper\n  o["modifierNumLock"] = modifierNumLock\n
o["modifierScrollLock"] = modifierScrollLock\n  o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n  o["modifierSymbolLock"] = modifierSymbolLock\n  o["view"] =
view\n  o["detail"] = detail\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] =
composed\n  return o\n}\n\n/**
 * Exposes the JavaScript [PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\n
*/\n\npublic external open class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) :
MouseEvent {\n  open val pointerId: Int\n  open val width: Double\n  open val height: Double\n  open val
pressure: Float\n  open val tangentialPressure: Float\n  open val tiltX: Int\n  open val tiltY: Int\n  open val twist:
Int\n  open val pointerType: String\n  open val isPrimary: Boolean\n\n  companion object {\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n  }\n}"/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat
for details\n\npackage org.w3c.dom.svg\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.css.*\n\n/**
 * Exposes the JavaScript
[SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n
*/\n\npublic external
abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {\n
  open val dataset: DOMStringMap\n  open val ownerSVGElement: SVGSVGElement?\n  open val
viewportElement: SVGElement?\n  open var tabIndex: Int\n  fun focus()\n  fun blur()\n\n  companion object
{\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n
    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE:
Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n
    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external
interface SVGBoundingBoxOptions {\n  var fill: Boolean? /* = true */\n  get() = definedExternally\n

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set(value) = definedExternally\n    var stroke: Boolean? /* = false */\n        get() = definedExternally\n
set(value) = definedExternally\n    var markers: Boolean? /* = false */\n        get() = definedExternally\n
set(value) = definedExternally\n    var clipped: Boolean? /* = false */\n        get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun SVGBoundingBoxOptions(fill:
Boolean? = true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false):
SVGBoundingBoxOptions {\n    val o = js("{}")\n    o["fill"] = fill\n    o["stroke"] = stroke\n    o["markers"]
= markers\n    o["clipped"] = clipped\n    return o\n}\n\n/**\n * Exposes the JavaScript
[SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\n
*/\npublic external abstract class SVGGraphicsElement : SVGElement, SVGTests {\n    open val transform:
SVGAnimatedTransformList\n    fun getBBox(options: SVGBoundingBoxOptions = definedExternally):
DOMRect\n    fun getCTM(): DOMMatrix?\n    fun getScreenCTM(): DOMMatrix?\n\n    companion object {\n
val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin\n
*/\npublic external abstract class SVGGeometryElement : SVGGraphicsElement {\n    open val pathLength:
SVGAnimatedNumber\n    fun isPointInFill(point: DOMPoint): Boolean\n    fun isPointInStroke(point: DOMPoint):
Boolean\n    fun getTotalLength(): Float\n    fun getPointAtLength(distance: Float): DOMPoint\n\n    companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin\n
*/\npublic external
abstract class SVGNumber {\n    open var value: Float\n}\n\n/**\n * Exposes the JavaScript
[SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin\n
*/\npublic external abstract class SVGLength {\n    open val unitType: Short\n    open var value: Float\n    open var
valueInSpecifiedUnits: Float\n    open var valueAsString: String\n    fun newValueSpecifiedUnits(unitType: Short,
valueInSpecifiedUnits: Float)\n    fun convertToSpecifiedUnits(unitType: Short)\n\n    companion object {\n
val SVG_LENGTHTYPE_UNKNOWN: Short\n        val SVG_LENGTHTYPE_NUMBER: Short\n        val
SVG_LENGTHTYPE_PERCENTAGE: Short\n        val SVG_LENGTHTYPE_EMS: Short\n        val
SVG_LENGTHTYPE_EXS: Short\n        val SVG_LENGTHTYPE_PX: Short\n        val
SVG_LENGTHTYPE_CM: Short\n        val SVG_LENGTHTYPE_MM: Short\n        val
SVG_LENGTHTYPE_IN: Short\n        val SVG_LENGTHTYPE_PT: Short\n        val SVG_LENGTHTYPE_PC:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin\n
*/\npublic external abstract

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class SVGAngle {\n  open val unitType: Short\n  open var value:
Float\n  open var valueInSpecifiedUnits: Float\n  open var valueAsString: String\n  fun
newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)\n  fun convertToSpecifiedUnits(unitType:
Short)\n\n  companion object {\n    val SVG_ANGLETYPE_UNKNOWN: Short\n    val
SVG_ANGLETYPE_UNSPECIFIED: Short\n    val SVG_ANGLETYPE_DEG: Short\n    val
SVG_ANGLETYPE_RAD: Short\n    val SVG_ANGLETYPE_GRAD: Short\n  }\n}\n\npublic external abstract
class SVGNameList {\n  open val length: Int\n  open val numberOfItems: Int\n  fun clear()\n  fun
initialize(newItem: dynamic): dynamic\n  fun insertItemBefore(newItem: dynamic, index: Int): dynamic\n  fun
replaceItem(newItem: dynamic, index: Int): dynamic\n  fun removeItem(index: Int): dynamic\n  fun
appendItem(newItem: dynamic): dynamic\n  fun getItem(index: Int):
dynamic\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.get(index:
Int): dynamic = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.set(index: Int,
newItem: dynamic) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin\n */\n\npublic external
abstract class SVGNumberList {\n  open val length: Int\n  open val numberOfItems: Int\n  fun clear()\n  fun
initialize(newItem: SVGNumber): SVGNumber\n  fun insertItemBefore(newItem: SVGNumber, index: Int):
SVGNumber\n  fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber\n  fun removeItem(index: Int):
SVGNumber\n  fun appendItem(newItem: SVGNumber): SVGNumber\n  fun getItem(index: Int):
SVGNumber\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.get(index:
Int): SVGNumber? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.set(index:
Int, newItem: SVGNumber) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin\n */\n\npublic external
abstract class SVGLengthList {\n  open val length: Int\n  open val numberOfItems: Int\n  fun clear()\n  fun
initialize(newItem: SVGLength): SVGLength\n  fun insertItemBefore(newItem: SVGLength, index: Int):
SVGLength\n  fun replaceItem(newItem: SVGLength, index: Int): SVGLength\n  fun removeItem(index: Int):
SVGLength\n  fun appendItem(newItem: SVGLength): SVGLength\n  fun getItem(index: Int):
SVGLength\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.get(index:
Int): SVGLength? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic
inline operator fun SVGLengthList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem
}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin\n */\n\npublic external abstract class SVGAnimatedBoolean {\n  open var baseVal: Boolean\n  open val animVal:
Boolean\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to
Kotlin\n */\n\npublic external abstract class SVGAnimatedEnumeration {\n  open var baseVal: Short\n  open val
animVal: Short\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin\n */\n\npublic external abstract class SVGAnimatedInteger {\n  open var baseVal: Int\n  open val animVal:
Int\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber)
to Kotlin\n */\n\npublic external abstract class SVGAnimatedNumber {\n  open var baseVal: Float\n  open val
animVal: Float\n}\n\n/**\n * Exposes the JavaScript

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[SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin\n
`*\npublic external abstract class SVGAnimatedLength {\n open val baseVal: SVGLength\n open val animVal: SVGLength\n}\n\n**\n * Exposes the JavaScript`

[SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin\n
`*\npublic external abstract class SVGAnimatedAngle {\n open val baseVal: SVGAngle\n open val animVal: SVGAngle\n}\n\n**\n * Exposes the JavaScript`

[SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin\n
`*\npublic external abstract class SVGAnimatedString {\n open var baseVal: String\n open val animVal: String\n}\n\n**\n * Exposes the JavaScript`

[SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect) to Kotlin\n
`*\npublic external abstract class SVGAnimatedRect {\n open val baseVal: DOMRect\n open val animVal: DOMRectReadOnly\n}\n\n**\n * Exposes the JavaScript`

[SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\n
`*\npublic external abstract class SVGAnimatedNumberList {\n open val baseVal: SVGNumberList\n open val animVal: SVGNumberList\n}\n\n**\n * Exposes the JavaScript`

[SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin\n
`*\npublic external abstract class SVGAnimatedLengthList {\n open val baseVal: SVGLengthList\n open val animVal: SVGLengthList\n}\n\n**\n * Exposes the JavaScript`

[SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin\n
`*\npublic external abstract class SVGStringList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: String): String\n fun insertItemBefore(newItem: String, index: Int): String\n fun replaceItem(newItem: String, index: Int): String\n fun removeItem(index: Int): String\n fun appendItem(newItem: String): String\n fun getItem(index: Int): String\n}\n\n@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.get(index: Int): String? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.set(index: Int, newItem: String) { asDynamic()[index] = newItem }\n\n**\n * Exposes the JavaScript`

[SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin\n
`*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface SVGUnitTypes {\n companion object {\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n }\n}\n\n**\n * Exposes the JavaScript`

[SVGTests](https://developer.mozilla.org/en/docs/Web/API/SVGTests) to Kotlin\n
`*\npublic external interface SVGTests {\n val requiredExtensions: SVGStringList\n val systemLanguage: SVGStringList\n}\n\npublic external interface SVGFitToViewBox {\n val viewBox: SVGAnimatedRect\n val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\n}\n\n**\n * Exposes the JavaScript`

[SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\n
`*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface SVGZoomAndPan {\n var zoomAndPan: Short\n\n companion object {\n val SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE: Short\n val SVG_ZOOMANDPAN_MAGNIFY: Short\n }\n}\n\n**\n * Exposes the JavaScript`

[SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin\n
`*\npublic external interface SVGURIReference {\n val href: SVGAnimatedString\n}\n\n**\n * Exposes the JavaScript`

[SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin\n
`*\npublic external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan, WindowEventHandlers {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n open var currentScale: Float\n open`

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val currentTranslate: DOMPointReadOnly\n fun getIntersectionList(rect: DOMRectReadOnly, referenceElement:
SVGElement?): NodeList\n fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?):
NodeList\n fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean\n fun
checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean\n fun deselectAll()\n fun
createSVGNumber(): SVGNumber\n fun createSVGLength(): SVGLength\n fun createSVGAngle():
SVGAngle\n fun
createSVGPoint(): DOMPoint\n fun createSVGMatrix(): DOMMatrix\n fun createSVGRect(): DOMRect\n
fun createSVGTransform(): SVGTransform\n fun createSVGTransformFromMatrix(matrix:
DOMMatrixReadOnly): SVGTransform\n fun getElementById(elementId: String): Element\n fun
suspendRedraw(maxWaitMilliseconds: Int): Int\n fun unsuspendRedraw(suspendHandleID: Int)\n fun
unsuspendRedrawAll()\n fun forceRedraw()\n\n companion object {\n val
SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE: Short\n val
SVG_ZOOMANDPAN_MAGNIFY: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val
DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n/**\n * Exposes
the JavaScript [SVGGElement](https://developer.mozilla.org/en/docs/Web/API/SVGGElement) to Kotlin\n
*/\n\npublic external abstract class SVGGElement : SVGGraphicsElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n
val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING:
Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val
DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
SVGUnknownElement : SVGGraphicsElement {\n companion object {\n val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes
the JavaScript [SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin\n
*/\n\npublic external abstract class SVGDefsElement : SVGGraphicsElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val

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DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS:
Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin\n *\npublic
external abstract class SVGDescElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }\n}\n\n/**\n * Exposes the JavaScript
[SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin\n
*\npublic external abstract class SVGMetadataElement : SVGElement {\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }\n}\n\n/**\n * Exposes the JavaScript
[SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin\n *\npublic
external abstract class SVGTitleElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }\n}\n\n/**\n * Exposes
the JavaScript [SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to
Kotlin\n *\npublic external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {\n
    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n       
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n

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    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin\n
*/\npublic external abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open val width: SVGAnimatedLength\n    open val
height: SVGAnimatedLength\n    open val instanceRoot: SVGElement?\n    open val animatedInstanceRoot:
SVGElement?\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE:
Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
open class SVGUseElementShadowRoot : ShadowRoot {\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING:
Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
SVGElementInstance {\n    val correspondingElement: SVGElement?\n    get() = definedExternally\n    val
correspondingUseElement: SVGUseElement?\n    get() = definedExternally\n}\n\npublic external open class
ShadowAnimation(source: dynamic, newTarget: dynamic) {\n    open val sourceAnimation: dynamic\n}\n\n/**\n *
Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement)
to Kotlin\n */\npublic external abstract class SVGSwitchElement : SVGGraphicsElement {\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE:
Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val
DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
interface GetSVGDocument {\n    fun getSVGDocument(): Document\n}\n\n/**\n * Exposes the JavaScript
[SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin\n */\npublic
external abstract class SVGStyleElement : SVGElement, LinkStyle {\n    open var type: String\n    open var
media: String\n    open var title: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n       
val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n

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    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin \n * \n public external
abstract class SVGTransform { \n    open val type: Short\n    open val matrix: DOMMatrix\n    open val angle:
Float\n    fun setMatrix(matrix: DOMMatrixReadOnly)\n    fun setTranslate(tx: Float, ty:
Float)\n    fun setScale(sx: Float, sy: Float)\n    fun setRotate(angle: Float, cx: Float, cy: Float)\n    fun
setSkewX(angle: Float)\n    fun setSkewY(angle: Float)\n \n    companion object { \n        val
SVG_TRANSFORM_UNKNOWN: Short\n        val SVG_TRANSFORM_MATRIX: Short\n        val
SVG_TRANSFORM_TRANSLATE: Short\n        val SVG_TRANSFORM_SCALE: Short\n        val
SVG_TRANSFORM_ROTATE: Short\n        val SVG_TRANSFORM_SKEWX: Short\n        val
SVG_TRANSFORM_SKEWY: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin \n * \n public
external abstract class SVGTransformList { \n    open val length: Int\n    open val numberOfItems: Int\n    fun
clear()\n    fun initialize(newItem: SVGTransform): SVGTransform\n    fun insertItemBefore(newItem:
SVGTransform, index: Int): SVGTransform\n    fun replaceItem(newItem: SVGTransform, index: Int):
SVGTransform\n    fun removeItem(index: Int): SVGTransform\n
    fun appendItem(newItem: SVGTransform): SVGTransform\n    fun createSVGTransformFromMatrix(matrix:
DOMMatrixReadOnly): SVGTransform\n    fun consolidate(): SVGTransform?\n    fun getItem(index: Int):
SVGTransform\n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun SVGTransformList.get(index:
Int): SVGTransform? = asDynamic()[index] \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun SVGTransformList.set(index:
Int, newItem: SVGTransform) { asDynamic()[index] = newItem } \n \n /** \n * Exposes the JavaScript
[SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to
Kotlin \n * \n public external abstract class SVGAnimatedTransformList { \n    open val baseVal:
SVGTransformList\n    open val animVal: SVGTransformList\n} \n \n /** \n * Exposes the JavaScript
[SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio)
to Kotlin \n * \n public external abstract class SVGPreserveAspectRatio { \n    open var align: Short\n    open var
meetOrSlice: Short\n \n    companion object { \n        val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\n
        val SVG_PRESERVEASPECTRATIO_NONE: Short\n        val
SVG_PRESERVEASPECTRATIO_XMINYMIN: Short\n        val
SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short\n        val
SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short\n        val
SVG_PRESERVEASPECTRATIO_XMINYMID: Short\n        val
SVG_PRESERVEASPECTRATIO_XMIDYMID: Short\n        val
SVG_PRESERVEASPECTRATIO_XMAXYMID: Short\n        val
SVG_PRESERVEASPECTRATIO_XMINYMAX: Short\n        val
SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short\n        val
SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short\n        val SVG_MEETORSLICE_UNKNOWN: Short\n
        val SVG_MEETORSLICE_MEET: Short\n        val SVG_MEETORSLICE_SLICE: Short\n    } \n} \n \n /** \n *
Exposes the JavaScript
[SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspect

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DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n } \n \n /** \n * Exposes the JavaScript
[SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin \n * \n public
external abstract class SVGLineElement : SVGGeometryElement { \n    open val x1: SVGAnimatedLength \n    open
val y1: SVGAnimatedLength \n    open val x2: SVGAnimatedLength \n    open val y2: SVGAnimatedLength \n \n
companion object
{ \n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n } \n \n /** \n * Exposes the JavaScript
[SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin \n * \n public
external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference { \n    companion object
{ \n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n } \n \n /** \n * Exposes the JavaScript
[SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin \n * \n public
external interface SVGAnimatedPoints { \n    val points: SVGPointList \n    val animatedPoints:
SVGPointList \n } \n \n public external abstract class SVGPointList { \n    open val length: Int \n    open val
numberOfItems: Int \n    fun clear() \n    fun initialize(newItem: DOMPoint): DOMPoint \n    fun
insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint \n    fun replaceItem(newItem: DOMPoint, index:
Int): DOMPoint \n    fun removeItem(index: Int): DOMPoint \n    fun appendItem(newItem: DOMPoint):
DOMPoint \n    fun getItem(index: Int): DOMPoint \n } \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun SVGPointList.get(index: Int):
DOMPoint? = asDynamic()[index] \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun SVGPointList.set(index: Int,
newItem: DOMPoint) { asDynamic()[index] = newItem } \n \n /** \n * Exposes the JavaScript
[SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin \n
* \n public external abstract class SVGPolylineElement
: SVGGeometryElement, SVGAnimatedPoints { \n    companion object { \n    val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin\n
*\npublic external abstract
class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints { \n    companion object { \n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin\n
*\npublic
external abstract class SVGTextContentElement : SVGGraphicsElement { \n    open val textLength:
SVGAnimatedLength\n    open val lengthAdjust: SVGAnimatedEnumeration\n    fun getNumberOfChars(): Int\n
fun getComputedTextLength(): Float\n    fun getSubStringLength(charnum: Int, nchars: Int): Float\n    fun
getStartPositionOfChar(charnum: Int): DOMPoint\n    fun getEndPositionOfChar(charnum: Int): DOMPoint\n    fun
getExtentOfChar(charnum: Int): DOMRect\n    fun getRotationOfChar(charnum: Int): Float\n    fun
getCharNumAtPosition(point: DOMPoint): Int\n    fun selectSubString(charnum: Int, nchars: Int)\n \n    companion
object { \n    val LENGTHADJUST_UNKNOWN: Short\n    val LENGTHADJUST_SPACING: Short\n
val LENGTHADJUST_SPACINGANDGLYPHS: Short\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE:
Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val
DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val
NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes
the JavaScript
[SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to
Kotlin\n *\npublic external abstract class SVGTextPositioningElement : SVGTextContentElement { \n    open val x:
SVGAnimatedLengthList\n    open val y: SVGAnimatedLengthList\n    open val dx: SVGAnimatedLengthList\n
open val dy: SVGAnimatedLengthList\n    open val rotate: SVGAnimatedNumberList\n \n    companion object { \n
val
LENGTHADJUST_UNKNOWN: Short\n    val LENGTHADJUST_SPACING: Short\n    val
LENGTHADJUST_SPACINGANDGLYPHS: Short\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val

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DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n/n/\*\*\n \* Exposes the JavaScript [SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin\n \*/\npublic external abstract class SVGTextElement : SVGTextPositioningElement {\n companion object {\n val LENGTHADJUST\_UNKNOWN: Short\n val LENGTHADJUST\_SPACING: Short\n val LENGTHADJUST\_SPACINGANDGLYPHS: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n/n/\*\*\n \* Exposes the JavaScript [SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin\n \*/\npublic external abstract class SVGTSpanElement : SVGTextPositioningElement {\n companion object {\n val LENGTHADJUST\_UNKNOWN: Short\n val LENGTHADJUST\_SPACING: Short\n val LENGTHADJUST\_SPACINGANDGLYPHS: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n/n/\*\*\n \* Exposes the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin\n \*/\npublic external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {\n open val startOffset: SVGAnimatedLength\n open val method: SVGAnimatedEnumeration\n open val spacing: SVGAnimatedEnumeration\n\n companion object {\n val TEXTPATH\_METHODTYPE\_UNKNOWN: Short\n val TEXTPATH\_METHODTYPE\_ALIGN: Short\n val TEXTPATH\_METHODTYPE\_STRETCH: Short\n val TEXTPATH\_SPACINGTYPE\_UNKNOWN: Short\n val TEXTPATH\_SPACINGTYPE\_AUTO: Short\n val TEXTPATH\_SPACINGTYPE\_EXACT: Short\n val LENGTHADJUST\_UNKNOWN: Short\n val LENGTHADJUST\_SPACING: Short\n val LENGTHADJUST\_SPACINGANDGLYPHS: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\n */\npublic
external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference,
HTMLOrSVGImageElement {\n    open val x: SVGAnimatedLength\n    open val y: SVGAnimatedLength\n
    open val width: SVGAnimatedLength\n    open val height: SVGAnimatedLength\n    open val
preserveAspectRatio: SVGAnimatedPreserveAspectRatio\n    open var crossOrigin: String?\n\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement)
to Kotlin\n */\npublic external abstract class SVGForeignObjectElement : SVGGraphicsElement {\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open val width: SVGAnimatedLength\n    open val
height: SVGAnimatedLength\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGMarkerElement : SVGElement, SVGFitToViewBox {\n    open val refX: SVGAnimatedLength\n    open val
refY: SVGAnimatedLength\n    open val markerUnits: SVGAnimatedEnumeration\n    open val markerWidth:
SVGAnimatedLength\n    open val markerHeight: SVGAnimatedLength\n    open val orientType:
SVGAnimatedEnumeration\n    open val orientAngle: SVGAnimatedAngle\n    open var orient: String\n    fun
setOrientToAuto()\n    fun setOrientToAngle(angle: SVGAngle)\n\n    companion object {\n        val
SVG_MARKERUNITS_UNKNOWN: Short\n        val SVG_MARKERUNITS_USERSPACEONUSE: Short\n
        val SVG_MARKERUNITS_STROKEWIDTH: Short\n        val SVG_MARKER_ORIENT_UNKNOWN: Short\n
        val SVG_MARKER_ORIENT_AUTO: Short\n        val SVG_MARKER_ORIENT_ANGLE: Short\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin\n
*/\npublic external abstract class SVGSolidcolorElement : SVGElement {\n    companion object {\n        val

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ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE:
Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin\n
*\npublic external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {\n
open val gradientUnits: SVGAnimatedEnumeration\n    open val gradientTransform: SVGAnimatedTransformList\n
    open val spreadMethod: SVGAnimatedEnumeration\n\n    companion object {\n        val
SVG_SPREADMETHOD_UNKNOWN: Short\n        val SVG_SPREADMETHOD_PAD: Short\n        val
SVG_SPREADMETHOD_REFLECT: Short\n        val SVG_SPREADMETHOD_REPEAT: Short\n        val
SVG_UNIT_TYPE_UNKNOWN: Short\n        val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript
[SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to
Kotlin\n
*\npublic external abstract class SVGLinearGradientElement : SVGGradientElement {\n    open val x1:
SVGAnimatedLength\n    open val y1: SVGAnimatedLength\n    open val x2: SVGAnimatedLength\n    open val
y2: SVGAnimatedLength\n\n    companion object {\n        val SVG_SPREADMETHOD_UNKNOWN: Short\n
        val SVG_SPREADMETHOD_PAD: Short\n        val SVG_SPREADMETHOD_REFLECT: Short\n        val
SVG_SPREADMETHOD_REPEAT: Short\n        val SVG_UNIT_TYPE_UNKNOWN: Short\n        val
SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to
Kotlin\n
*\npublic external abstract class SVGRadialGradientElement : SVGGradientElement {\n    open val cx:
SVGAnimatedLength\n    open val cy: SVGAnimatedLength\n    open val r: SVGAnimatedLength\n    open val fx:
SVGAnimatedLength\n

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open val fy: SVGAnimatedLength\n open val fr: SVGAnimatedLength\n\n companion object {\n val
SVG_SPREADMETHOD_UNKNOWN: Short\n val SVG_SPREADMETHOD_PAD: Short\n val
SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT: Short\n val
SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING:
Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val
DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\npublic external abstract class
SVGMeshGradientElement : SVGGradientElement {\n companion object {\n val
SVG_SPREADMETHOD_UNKNOWN: Short\n val SVG_SPREADMETHOD_PAD: Short\n val
SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT: Short\n val
SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE:
Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\npublic external
abstract class SVGMeshrowElement : SVGElement {\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS:
Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\npublic external abstract class
SVGMeshpatchElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n

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val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin\n */\npublic
external abstract class SVGCursorElement : SVGElement, SVGURIReference {\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n
        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin\n
*/\npublic external abstract class SVGScriptElement : SVGElement, SVGURIReference,
HTMLorSVGScriptElement {\n    open var type: String\n    open var crossOrigin: String?\n\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n
        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGAEElement](https://developer.mozilla.org/en/docs/Web/API/SVGAEElement) to Kotlin\n
*/\npublic external abstract class SVGAEElement : SVGGraphicsElement, SVGURIReference {\n    open val target:
SVGAnimatedString\n    open val download: SVGAnimatedString\n    open val rel: SVGAnimatedString\n    open
val relList: SVGAnimatedString\n    open val hreflang: SVGAnimatedString\n    open val type:
SVGAnimatedString\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin\n */\npublic
external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {\n    companion
object {\n        val SVG_ZOOMANDPAN_UNKNOWN: Short\n        val SVG_ZOOMANDPAN_DISABLE:
Short\n        val
SVG_ZOOMANDPAN_MAGNIFY: Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val

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DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n }", /*\n * Copyright 2010-2022
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Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for
details\n\npackage org.w3c.files\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.events.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin\n */\npublic external open class
Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) :
MediaPlayer, ImageBitmapSource {\n    open val size: Number\n    open val type: String\n    open val isClosed:
Boolean\n    fun slice(start: Int = definedExternally, end: Int = definedExternally, contentType: String =
definedExternally): Blob\n    fun close()\n}\n\npublic external interface BlobPropertyBag {\n    var type: String? /*
= \"\" *\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic
inline fun BlobPropertyBag(type: String? = \"\"): BlobPropertyBag {\n    val o = js(\"({})\")\n    o[\"type\"] = type\n    return o\n}\n\n/**\n * Exposes the JavaScript [File](https://developer.mozilla.org/en/docs/Web/API/File) to
Kotlin\n */\npublic external open class File(fileBits: Array<dynamic>, fileName: String, options: FilePropertyBag =
definedExternally) : Blob {\n    open val name: String\n    open val lastModified: Int\n}\n\npublic external interface
FilePropertyBag : BlobPropertyBag {\n    var lastModified: Int?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun FilePropertyBag(lastModified: Int? =
undefined, type: String? = \"\"): FilePropertyBag {\n    val o = js(\"({})\")\n    o[\"lastModified\"] = lastModified\n    o[\"type\"] = type\n    return o\n}\n\n/**\n * Exposes the JavaScript
[FileList](https://developer.mozilla.org/en/docs/Web/API/FileList)
to Kotlin\n */\npublic external abstract class FileList : ItemArrayLike<File> {\n    override fun item(index: Int):
File?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun FileList.get(index: Int): File?
= asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin\n */\npublic external open class
FileReader : EventTarget {\n    open val readyState: Short\n    open val result: dynamic\n    open val error:
dynamic\n    var onloadstart: ((ProgressEvent) -> dynamic)?\n    var onprogress: ((ProgressEvent) -> dynamic)?\n
var onload: ((Event) -> dynamic)?\n    var onabort: ((Event) -> dynamic)?\n    var onerror: ((Event) -> dynamic)?\n
var onloadend: ((Event) -> dynamic)?\n    fun readAsArrayBuffer(blob: Blob)\n    fun readAsBinaryString(blob:
Blob)\n    fun readAsText(blob: Blob, label: String = definedExternally)\n    fun
readAsDataURL(blob: Blob)\n    fun abort()\n\n    companion object {\n        val EMPTY: Short\n        val
LOADING: Short\n        val DONE: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin\n */\npublic external
open class FileReaderSync {\n    fun readAsArrayBuffer(blob: Blob): ArrayBuffer\n    fun readAsBinaryString(blob:
Blob): String\n    fun readAsText(blob: Blob, label: String = definedExternally): String\n    fun
readAsDataURL(blob: Blob): String\n}\n\n/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.notifications\n\nimport kotlin.js.*\nimport

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org.khronos.webgl.*\nimport org.w3c.dom.events.*\nimport org.w3c.workers.*\n\n/* Exposes the JavaScript [Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin */
\npublic external open class Notification(title: String, options: NotificationOptions = definedExternally) :
EventTarget {\n    var onclick: ((MouseEvent) -> dynamic)?\n    var onerror: ((Event) -> dynamic)?\n    open val
title: String\n    open val dir: NotificationDirection\n    open val lang: String\n    open val body: String\n    open val
tag: String\n    open val image: String\n    open val icon: String\n    open val badge: String\n    open val sound:
String\n    open val vibrate: Array<out Int>\n    open val timestamp: Number\n    open val renotify: Boolean\n
open val silent: Boolean\n    open val noscreen: Boolean\n    open val requireInteraction: Boolean\n    open val
sticky: Boolean\n    open val data: Any?\n    open val actions: Array<out NotificationAction>\n    fun close()\n\n
companion object {\n        val permission: NotificationPermission\n
        val maxActions: Int\n        fun requestPermission(deprecatedCallback: (NotificationPermission) -> Unit =
definedExternally): Promise<NotificationPermission>\n    }\n\n    public external interface NotificationOptions {\n
        var dir: NotificationDirection? /* = NotificationDirection.AUTO */\n        get() = definedExternally\n        set(value)
= definedExternally\n        var lang: String? /* = "" */\n        get() = definedExternally\n        set(value) =
definedExternally\n        var body: String? /* = "" */\n        get() = definedExternally\n        set(value) =
definedExternally\n        var tag: String? /* = "" */\n        get() = definedExternally\n        set(value) =
definedExternally\n        var image: String?\n        get() = definedExternally\n        set(value) = definedExternally\n
        var icon: String?\n        get() = definedExternally\n        set(value) = definedExternally\n        var badge: String?\n
        get() = definedExternally\n        set(value) = definedExternally\n
        var sound: String?\n        get() = definedExternally\n        set(value) = definedExternally\n        var vibrate:
dynamic\n        get() = definedExternally\n        set(value) = definedExternally\n        var timestamp: Number?\n
        get() = definedExternally\n        set(value) = definedExternally\n        var renotify: Boolean? /* = false */\n        get() =
definedExternally\n        set(value) = definedExternally\n        var silent: Boolean? /* = false */\n        get() =
definedExternally\n        set(value) = definedExternally\n        var noscreen: Boolean? /* = false */\n        get() =
definedExternally\n        set(value) = definedExternally\n        var requireInteraction: Boolean? /* = false */\n        get()
= definedExternally\n        set(value) = definedExternally\n        var sticky: Boolean? /* = false */\n        get() =
definedExternally\n        set(value) = definedExternally\n        var data: Any? /* = null */\n        get() =
definedExternally\n        set(value) = definedExternally\n
        var actions: Array<NotificationAction>? /* = arrayOf() */\n        get() = definedExternally\n        set(value) =
definedExternally\n    }\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline fun NotificationOptions(dir:
NotificationDirection? = NotificationDirection.AUTO, lang: String? = \"\", body: String? = \"\", tag: String? = \"\",
image: String? = undefined, icon: String? = undefined, badge: String? = undefined, sound: String? = undefined,
vibrate: dynamic = undefined, timestamp: Number? = undefined, renotify: Boolean? = false, silent: Boolean? =
false, noscreen: Boolean? = false, requireInteraction: Boolean? = false, sticky: Boolean? = false, data: Any? = null,
actions: Array<NotificationAction>? = arrayOf()): NotificationOptions {\n        val o = js(\"({})\")\n        o[\"dir\"] = dir\n
        o[\"lang\"] = lang\n        o[\"body\"] = body\n        o[\"tag\"] = tag\n        o[\"image\"] = image\n        o[\"icon\"] = icon\n
        o[\"badge\"] = badge\n
        o[\"sound\"] = sound\n        o[\"vibrate\"] = vibrate\n        o[\"timestamp\"] = timestamp\n        o[\"renotify\"] = renotify\n
        o[\"silent\"] = silent\n        o[\"noscreen\"] = noscreen\n        o[\"requireInteraction\"] = requireInteraction\n
        o[\"sticky\"] = sticky\n        o[\"data\"] = data\n        o[\"actions\"] = actions\n        return o\n    }\n\n    public external interface
NotificationAction {\n        var action: String?\n        var title: String?\n        var icon: String?\n        get() =
definedExternally\n        set(value) = definedExternally\n    }\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline fun NotificationAction(action: String?,
title: String?, icon: String? = undefined): NotificationAction {\n        val o = js(\"({})\")\n        o[\"action\"] = action\n
        o[\"title\"] = title\n        o[\"icon\"] = icon\n        return o\n    }\n\n    public external interface GetNotificationOptions {\n
        var tag: String? /* = \"\" */\n        get() = definedExternally\n        set(value)

```



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= definedExternally\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun GetNotificationOptions(tag: String? =
\\"): GetNotificationOptions {\n    val o = js(\\"{\}\")\n    o[\"tag\"] = tag\n    return o\n}\n\n/**\n * Exposes the
JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin\n
*/\npublic external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) :
ExtendableEvent {\n    open val notification: Notification\n    open val action: String\n\n    companion object {\n
val NONE: Short\n        val CAPTURING_PHASE: Short\n            val AT_TARGET: Short\n                val
BUBBLING_PHASE: Short\n                    }\n}\n\npublic external interface NotificationEventInit : ExtendableEventInit {\n
var notification: Notification?\n    var action: String? /* = \\\" */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun NotificationEventInit(notification:
Notification?, action: String? = \\\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): NotificationEventInit {\n    val o = js(\\"{\}\")\n    o[\"notification\"] = notification\n    o[\"action\"] =
action\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return
o\n}\n\n/* please, don't implement this interface!
*/\n\n@JsName(\\"null\")\n@Suppress(\\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface NotificationPermission {\n    companion object\n}\n\npublic inline val
NotificationPermission.Companion.DEFAULT: NotificationPermission get() =
\\\"default\\\".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val
NotificationPermission.Companion.DENIED: NotificationPermission get() =
\\\"denied\\\".asDynamic().unsafeCast<NotificationPermission>()\n\npublic
inline val NotificationPermission.Companion.GRANTED: NotificationPermission get() =
\\\"granted\\\".asDynamic().unsafeCast<NotificationPermission>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\\"null\")\n@Suppress(\\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface NotificationDirection {\n    companion object\n}\n\npublic inline val
NotificationDirection.Companion.AUTO: NotificationDirection get() =
\\\"auto\\\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val
NotificationDirection.Companion.LTR: NotificationDirection get() =
\\\"ltr\\\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val
NotificationDirection.Companion.RTL: NotificationDirection get() =
\\\"rtl\\\".asDynamic().unsafeCast<NotificationDirection>()\n\n/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// NOTE:
THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage
org.w3c.workers\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.events.*\nimport org.w3c.fetch.*\nimport org.w3c.notifications.*\n\n/**\n * Exposes the JavaScript
[ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin\n */\n\npublic external
abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker,
UnionClientOrMessagePortOrServiceWorker {\n    open val scriptURL: String\n    open val state:
ServiceWorkerState\n    open var onstatechange: ((Event) -> dynamic)?\n    fun postMessage(message: Any?,
transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to
Kotlin\n */\n\npublic external abstract class ServiceWorkerRegistration : EventTarget {\n    open val installing:
ServiceWorker?\n    open val waiting: ServiceWorker?\n    open val active: ServiceWorker?\n    open val scope:
String\n    open var onupdatefound: ((Event) -> dynamic)?\n    open val APISpace: dynamic\n    fun update():
Promise<Unit>\n    fun unregister(): Promise<Boolean>\n    fun showNotification(title: String, options:
NotificationOptions = definedExternally): Promise<Unit>\n    fun getNotifications(filter: GetNotificationOptions =
definedExternally): Promise<Array<Notification>>\n    fun methodName(): Promise<dynamic>\n}\n\n/**\n *

```

Exposes the JavaScript

```
[ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin\n*\npublic external abstract class ServiceWorkerContainer : EventTarget {\n    open val controller:\n    ServiceWorker?\n    open val ready: Promise<ServiceWorkerRegistration>\n    open var oncontrollerchange:\n    ((Event) -> dynamic)?\n    open var onmessage: ((MessageEvent) -> dynamic)?\n    fun register(scriptURL: String,\n    options:\n    RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\n    fun\n    getRegistration(clientURL: String = definedExternally): Promise<Any?>\n    fun getRegistrations():\n    Promise<Array<ServiceWorkerRegistration>>\n    fun startMessages()\n}\n\npublic external interface\n    RegistrationOptions {\n    var scope: String?\n    get() = definedExternally\n    set(value) = definedExternally\n    var type: WorkerType? /* = WorkerType.CLASSIC */\n    get() = definedExternally\n    set(value) =\n    definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",\n    \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun RegistrationOptions(scope: String? =\n    undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {\n    val o = js(\"({})\")\n    o[\"scope\"] = scope\n    o[\"type\"] = type\n    return o\n}\n\n/**\n * Exposes the JavaScript\n    [ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to\n    Kotlin\n\n    *\n    public external open class ServiceWorkerMessageEvent(type: String, eventInitDict:\n    ServiceWorkerMessageEventInit = definedExternally) : Event {\n    open val data: Any?\n    open val origin:\n    String\n    open val lastEventId: String\n    open val source: UnionMessagePortOrServiceWorker?\n    open val\n    ports: Array<out MessagePort>?\n    companion object {\n    val NONE: Short\n    val\n    CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ServiceWorkerMessageEventInit : EventInit {\n    var data: Any?\n    get() =\n    definedExternally\n    set(value) = definedExternally\n    var origin: String?\n    get() = definedExternally\n    set(value) =\n    definedExternally\n    var lastEventId: String?\n    get() = definedExternally\n    set(value) =\n    definedExternally\n    var source: UnionMessagePortOrServiceWorker?\n    get() = definedExternally\n    set(value) = definedExternally\n\n    var ports: Array<MessagePort>?\n    get() = definedExternally\n    set(value) =\n    definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",\n    \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ServiceWorkerMessageEventInit(data:\n    Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:\n    UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? =\n    false, cancelable: Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\n    val o =\n    js(\"({})\")\n    o[\"data\"] = data\n    o[\"origin\"] = origin\n    o[\"lastEventId\"] = lastEventId\n    o[\"source\"] =\n    source\n    o[\"ports\"] = ports\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] =\n    composed\n    return o\n}\n\n/**\n * Exposes the JavaScript\n    [ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to\n    Kotlin\n\n    *\n    public external\n\n    abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {\n    open val clients: Clients\n    open val\n    registration: ServiceWorkerRegistration\n    open var oninstall: ((Event) -> dynamic)?\n    open var onactivate:\n    ((Event) -> dynamic)?\n    open var onfetch: ((FetchEvent) -> dynamic)?\n    open var onforeignfetch: ((Event) ->\n    dynamic)?\n    open var onmessage: ((MessageEvent) -> dynamic)?\n    open var onnotificationclick:\n    ((NotificationEvent) -> dynamic)?\n    open var onnotificationclose: ((NotificationEvent) -> dynamic)?\n    open var\n    onfunctionalevent: ((Event) -> dynamic)?\n    fun skipWaiting(): Promise<Unit>\n}\n\n/**\n * Exposes the\n    JavaScript [Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin\n\n    *\n    public external abstract\n    class Client : UnionClientOrMessagePortOrServiceWorker {\n    open val url: String\n    open val frameType:\n    FrameType\n    open val id: String\n    fun postMessage(message: Any?, transfer: Array<dynamic> =\n    definedExternally)\n}\n\n/**\n
```

```

* Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to Kotlin
public external abstract class WindowClient : Client {
    open val visibilityState: dynamic
    open val focused: Boolean
    fun focus(): Promise<WindowClient>
    fun navigate(url: String): Promise<WindowClient>
}

* Exposes the JavaScript [Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin
public external abstract class Clients {
    fun get(id: String): Promise<Any?>
    fun matchAll(options: ClientQueryOptions = definedExternally): Promise<Array<Client>>
    fun openWindow(url: String): Promise<WindowClient?>
    fun claim(): Promise<Unit>
}

public external interface ClientQueryOptions {
    var includeUncontrolled: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
    var type: ClientType? /* = ClientType.WINDOW */
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun ClientQueryOptions(includeUncontrolled: Boolean? = false, type: ClientType? = ClientType.WINDOW): ClientQueryOptions {
    val o = js("{}")
    o["includeUncontrolled"] = includeUncontrolled
    o["type"] = type
    return o
}

* Exposes the JavaScript [ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin
open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : Event {
    fun waitUntil(f: Promise<Any?>)
}

companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}

public external interface ExtendableEventInit : EventInit {
    @Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
    @kotlin.internal.InlineOnly
    public inline fun ExtendableEventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableEventInit {
        val o = js("{}")
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }
}

* Exposes the JavaScript [InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin
open class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {
    fun registerForeignFetch(options: ForeignFetchOptions)
}

companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}

public external interface ForeignFetchOptions {
    var scopes: Array<String>?
    var origins: Array<String>?
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun ForeignFetchOptions(scopes: Array<String>?, origins: Array<String>?): ForeignFetchOptions {
    val o = js("{}")
    o["scopes"] = scopes
    o["origins"] = origins
    return o
}

* Exposes the JavaScript [FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin
open class FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {
    open val request: Request
    open val clientId: String?
    open val isReload: Boolean
    fun respondWith(r: Promise<Response>)
}

companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}

public external interface FetchEventInit : ExtendableEventInit {
    var request: Request?
    var clientId: String? /* = null */
    get() = definedExternally
    set(value) = definedExternally
    var isReload: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun FetchEventInit(request: Request?, clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): FetchEventInit {
    val o = js("{}")
    o["request"] = request
    o["clientId"] = clientId
    o["isReload"] = isReload
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external open class ForeignFetchEvent(type: String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {
    open val request: Request
    open val origin: String
    fun respondWith(r: Promise<ForeignFetchResponse>)
}

companion object {
    val NONE:

```

```

Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n } }\n\npublic external interface ForeignFetchEventInit
: ExtendableEventInit {\n    var request: Request?\n    var origin: String? /* = \"null\" */\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchEventInit(request:
Request?, origin: String? = \"null\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): ForeignFetchEventInit {\n    val o = js(\"({})\")\n    o[\"request\"] = request\n    o[\"origin\"] = origin\n
o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return
o\n}\n\npublic external interface ForeignFetchResponse {\n    var response: Response?\n    var origin: String?\n
get() = definedExternally\n    set(value) = definedExternally\n    var headers: Array<String>?\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic
inline fun ForeignFetchResponse(response: Response?, origin: String? = undefined, headers: Array<String>? =
undefined): ForeignFetchResponse {\n    val o = js(\"({})\")\n    o[\"response\"] = response\n    o[\"origin\"] =
origin\n    o[\"headers\"] = headers\n    return o\n}\n\n/**\n * Exposes the JavaScript
[ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin\n
*/\npublic external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit =
definedExternally) : ExtendableEvent {\n    open val data: Any?\n    open val origin: String\n    open val lastEventId:
String\n    open val source: UnionClientOrMessagePortOrServiceWorker?\n    open val ports: Array<out
MessagePort>?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val
AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n\n    public external interface
ExtendableMessageEventInit : ExtendableEventInit {\n        var data: Any?\n        get() = definedExternally\n
set(value) = definedExternally\n        var origin: String?\n        get() = definedExternally\n        set(value) =
definedExternally\n        var lastEventId: String?\n        get() = definedExternally\n        set(value) =
definedExternally\n        var source: UnionClientOrMessagePortOrServiceWorker?\n        get() = definedExternally\n
set(value) = definedExternally\n        var ports: Array<MessagePort>?\n        get() = definedExternally\n
set(value) = definedExternally\n    }\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline fun ExtendableMessageEventInit(data:
Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
UnionClientOrMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean?
= false): ExtendableMessageEventInit {\n        val o = js(\"({})\")\n        o[\"data\"] = data\n        o[\"origin\"] = origin\n
o[\"lastEventId\"] = lastEventId\n        o[\"source\"] = source\n        o[\"ports\"] = ports\n        o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n        o[\"composed\"] = composed\n        return o\n    }\n\n    /**\n     * Exposes the JavaScript
[Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin\n     */\n    public external abstract class Cache
{\n        fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n        fun
matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally):
Promise<Array<Response>>\n        fun add(request: dynamic): Promise<Unit>\n        fun addAll(requests:
Array<dynamic>): Promise<Unit>\n        fun put(request: dynamic, response: Response): Promise<Unit>\n        fun
delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>\n        fun
keys(request: dynamic
= definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Request>>\n    }\n\n    public
external interface CacheQueryOptions {\n        var ignoreSearch: Boolean? /* = false */\n        get() =
definedExternally\n        set(value) = definedExternally\n        var ignoreMethod: Boolean? /* = false */\n        get() =
definedExternally\n        set(value) = definedExternally\n        var ignoreVary: Boolean? /* = false */\n        get() =
definedExternally\n        set(value) = definedExternally\n        var cacheName: String?\n        get() =
definedExternally\n        set(value) = definedExternally\n    }\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline fun CacheQueryOptions(ignoreSearch:

```

```

Boolean? = false, ignoreMethod: Boolean? = false, ignoreVary: Boolean? = false, cacheName: String? = undefined):
CacheQueryOptions {\n  val o = js("{}")\n  o["ignoreSearch"] = ignoreSearch\n  o["ignoreMethod"] =
ignoreMethod\n
  o["ignoreVary"] = ignoreVary\n  o["cacheName"] = cacheName\n  return o\n}\n\npublic external interface
CacheBatchOperation {\n  var type: String?\n  get() = definedExternally\n  set(value) = definedExternally\n
  var request: Request?\n  get() = definedExternally\n  set(value) = definedExternally\n  var response:
Response?\n  get() = definedExternally\n  set(value) = definedExternally\n  var options:
CacheQueryOptions?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun CacheBatchOperation(type: String? =
undefined, request: Request? = undefined, response: Response? = undefined, options: CacheQueryOptions? =
undefined): CacheBatchOperation {\n  val o = js("{}")\n  o["type"] = type\n  o["request"] = request\n
o["response"] = response\n  o["options"] = options\n  return o\n}\n\n/**\n
 * Exposes the JavaScript [CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin\n
 */\n\npublic external abstract class CacheStorage {\n  fun match(request: dynamic, options: CacheQueryOptions =
definedExternally): Promise<Any?>\n  fun has(cacheName: String): Promise<Boolean>\n  fun open(cacheName:
String): Promise<Cache>\n  fun delete(cacheName: String): Promise<Boolean>\n  fun keys():
Promise<Array<String>>\n}\n\npublic external open class FunctionalEvent : ExtendableEvent {\n  companion
object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface UnionMessagePortOrServiceWorker\n\npublic
external interface UnionClientOrMessagePortOrServiceWorker\n\n/* please, don't implement this interface!
 */\n\n@JsName("null")\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface ServiceWorkerState {\n  companion object\n}\n\npublic
  inline val ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() =
  "installing".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
  ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() =
  "installed".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
  ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() =
  "activating".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
  ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() =
  "activated".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
  ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() =
  "redundant".asDynamic().unsafeCast<ServiceWorkerState>()\n\n/* please, don't implement this interface!
 */\n\n@JsName("null")\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface FrameType {\n  companion object\n}\n\npublic inline val FrameType.Companion.AUXILIARY:
FrameType get() = "auxiliary".asDynamic().unsafeCast<FrameType>()\n\npublic
  inline val FrameType.Companion.TOP_LEVEL: FrameType get() = "top-
  level".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NESTED: FrameType
  get() = "nested".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NONE:
  FrameType get() = "none".asDynamic().unsafeCast<FrameType>()\n\n/* please, don't implement this interface!
 */\n\n@JsName("null")\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface ClientType {\n  companion object\n}\n\npublic inline val ClientType.Companion.WINDOW: ClientType
  get() = "window".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.WORKER:
  ClientType get() = "worker".asDynamic().unsafeCast<ClientType>()\n\npublic inline val
  ClientType.Companion.SHAREDWORKER: ClientType get() =
  "sharedworker".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.ALL:
  ClientType get()

```

```

= "\all".asDynamic().unsafeCast<ClientType>()", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.xhr\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.files.*\n\n/**\n *
Exposes the JavaScript
[XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to
Kotlin\n *\n\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\n    open var onloadstart:
((ProgressEvent) -> dynamic)?\n    open var onprogress: ((ProgressEvent) -> dynamic)?\n    open var onabort:
((Event) -> dynamic)?\n    open var onerror: ((Event) -> dynamic)?\n    open var onload: ((Event) -> dynamic)?\n
open var ontimeout:
((Event) -> dynamic)?\n    open var onloadend: ((Event) -> dynamic)?\n}\n\n\npublic external abstract class
XMLHttpRequestUpload : XMLHttpRequestEventTarget\n\n/**\n * Exposes the JavaScript
[XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to Kotlin\n *\n\npublic
external open class XMLHttpRequest : XMLHttpRequestEventTarget {\n    var onreadystatechange: ((Event) ->
dynamic)?\n    open val readyState: Short\n    var timeout: Int\n    var withCredentials: Boolean\n    open val upload:
XMLHttpRequestUpload\n    open val responseURL: String\n    open val status: Short\n    open val statusText:
String\n    var responseType: XMLHttpRequestResponseType\n    open val response: Any?\n    open val
responseText: String\n    open val responseXML: Document?\n    fun open(method: String, url: String)\n    fun
open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? =
definedExternally)\n    fun setRequestHeader(name:
String, value: String)\n    fun send(body: dynamic = definedExternally)\n    fun abort()\n    fun
getResponseHeader(name: String): String?\n    fun getAllResponseHeaders(): String\n    fun
overrideMimeType(mime: String)\n\n    companion object {\n        val UNSENT: Short\n        val OPENED: Short\n
        val HEADERS_RECEIVED: Short\n        val LOADING: Short\n        val DONE: Short\n    }\n\n\n/**\n *
Exposes the JavaScript [FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\n
*\n\npublic external open class FormData(form: HTMLFormElement = definedExternally) {\n    fun append(name:
String, value: String)\n    fun append(name: String, value: Blob, filename: String = definedExternally)\n    fun
delete(name: String)\n    fun get(name: String): dynamic\n    fun getAll(name: String): Array<dynamic>\n    fun
has(name: String): Boolean\n    fun set(name: String, value: String)\n    fun set(name: String, value: Blob, filename:
String = definedExternally)\n}\n\n\n/**\n * Exposes the JavaScript [ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to
Kotlin\n *\n\npublic external open class ProgressEvent(type: String, eventInitDict: ProgressEventInit =
definedExternally) : Event {\n    open val lengthComputable: Boolean\n    open val loaded: Number\n    open val
total: Number\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val
AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n\n\npublic external interface ProgressEventInit
: EventInit {\n    var lengthComputable: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var loaded: Number? /* = 0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var total: Number? /* = 0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n\n@Suppress("\nINVISIBLE_REFERENCE",
"\nINVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic
inline fun ProgressEventInit(lengthComputable: Boolean? = false, loaded: Number? = 0, total: Number? = 0,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ProgressEventInit {\n    val o
= js("\n({})")\n    o["lengthComputable"] = lengthComputable\n    o["loaded"] = loaded\n    o["total"] = total\n
o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\n\n/*
please, don't implement this interface!
*\n\n@JsName("\nnull")\n\n@Suppress("\nNESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface XMLHttpRequestResponseType {\n    companion object\n}\n\n\npublic inline val

```

```
XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() =
    "\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() =
    "arraybuffer\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic
    inline val XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() =
    "blob\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() =
    "document\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() =
    "json\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() =
    "text\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()", "package kotlin\n\nimport
kotlin.annotation.AnnotationTarget.*\n\n/*\n * This annotation marks the standard library API that is considered
experimental and is not subject to the\n * [general compatibility
guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the standard
library:\n * the behavior of such API
    may be changed or the API may be removed completely in any further release.\n *\n * > Beware using the
annotated API especially if you're developing a library, since your library might become binary incompatible\n *
with the future versions of the standard library.\n *\n * Any usage of a declaration annotated with
`@ExperimentalStdlibApi` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g.
`@OptIn(ExperimentalStdlibApi::class)`,\n * or by using the compiler argument `-opt-
in=kotlin.ExperimentalStdlibApi`. \n *\n * @RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n * @Retention(AnnotationRetention.BINARY)\n * @Target(\n * CLASS,\n *
ANNOTATION_CLASS,\n * PROPERTY,\n * FIELD,\n * LOCAL_VARIABLE,\n * VALUE_PARAMETER,\n *
CONSTRUCTOR,\n * FUNCTION,\n * PROPERTY_GETTER,\n * PROPERTY_SETTER,\n *
TYPE_ALIAS)\n * @MustBeDocumented\n * @SinceKotlin("1.3")\n * public annotation class
ExperimentalStdlibApi\n * ,"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n * \n * package kotlin\n * import
kotlin.annotation.AnnotationTarget.*\n * import kotlin.experimental.ExperimentalTypeInference\n * \n * \n * Allows to
infer generic type arguments of a function from the calls in the annotated function parameter of that function.\n * \n *
When this annotation is placed on a generic function parameter of a function,\n * it enables to infer the type
arguments of that generic function from the lambda body passed to that parameter.\n * \n * The calls that affect
inference are either members of the receiver type of an annotated function parameter or\n * extensions for that type.
The extensions must be themselves annotated with `@BuilderInference`. \n * \n * Example: we declare\n * \n * fun
<T> sequence(@BuilderInference block: suspend SequenceScope<T>(). -> Unit): Sequence<T>\n * \n * \n * and use
it like\n * \n * \n *
val result = sequence { yield("result") } \n * \n * \n * Here the type argument of the resulting sequence is inferred to
`String` from\n * the argument of the [SequenceScope.yield] function, that is called inside the lambda passed to
[sequence].\n * \n * Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.\n *
\n * \n * @Target(VALUE_PARAMETER, FUNCTION,
PROPERTY)\n * @Retention(AnnotationRetention.BINARY)\n * @SinceKotlin("1.3")\n * @ExperimentalTypeInferenc
e\n * public annotation class BuilderInference\n * \n * \n * Enables overload selection based on the type of the value
returned from lambda argument.\n * \n * When two or more function overloads have otherwise the same parameter
lists that differ only in the return type\n * of a functional parameter, this annotation enables overload selection by the
type of the value returned from\n * the lambda function passed to this functional parameter.\n * \n * Example:\n *
\n * \n * @OverloadResolutionByLambdaReturnType\n *

```

```

fun create(intProducer: () -> Int): Int * fun create(doubleProducer: () -> Double): Double * val
newValue = create { 3.14 } * `` * The annotation being applied to one of overloads allows to resolve this
ambiguity by analyzing what value is returned * from the lambda function. * This annotation is also used to
discriminate the annotated overloads in case if overload selection still cannot * choose one of them even taking in
account the result of lambda parameter analysis. In that case a warning is reported. * Note: this annotation is
experimental, see [ExperimentalTypeInference] on how to opt-in for it.
*/
@Target(FUNCTION) @Retention(AnnotationRetention.BINARY) @SinceKotlin("1.4") @Experimental
TypeInference
public annotation class OverloadResolutionByLambdaReturnType, /* Copyright 2010-2018
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Apache 2.0 license that can be found
in the license/LICENSE.txt file. */
package kotlin
import kotlin.annotation.AnnotationTarget.*
import
kotlin.internal.RequireKotlin
import kotlin.internal.RequireKotlinVersionKind
/** * The experimental
multiplatform support API marker. * Any usage of a declaration annotated with
`@ExperimentalMultiplatform` must be accepted either by * annotating that usage with the [OptIn] annotation,
e.g. `@OptIn(ExperimentalMultiplatform::class)` * or by using the compiler argument `-opt-
in=kotlin.ExperimentalMultiplatform`. */
@RequiresOptIn @MustBeDocumented
@Target(
    CLASS,
    ANNOTATION_CLASS,
    PROPERTY,
    FIELD,
    LOCAL_VARIABLE,
    VALUE_PARAMETER,
    CONSTRUCTOR,
    FUNCTION,
    PROPERTY_GETTER,
    PROPERTY_SETTER,
    TYPEALIAS
)
@Retention(AnnotationRetention.BINARY)
public annotation class
ExperimentalMultiplatform /* * Marks an expected annotation class that it isn't required to have actual
counterparts in all platforms.
* * This annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that
class as `optional`. * Optional expected class is allowed to have no corresponding actual class on the platform.
Optional annotations can only be used * to annotate something, not as types in signatures. If an optional
annotation has no corresponding actual class on a platform, * the annotation entries where it's used are simply
erased when compiling code on that platform. * Note: this annotation is experimental, see
[ExperimentalMultiplatform] on how to opt-in for it.
*/
@Target(ANNOTATION_CLASS) @Retention(AnnotationRetention.BINARY) @ExperimentalMultiplatfor
m
public annotation class OptionalExpectation /* * Copyright 2010-2022 JetBrains s.r.o. and Kotlin
Programming Language contributors. * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file. */
package kotlin
import
kotlin.annotation.AnnotationRetention.*
import
kotlin.annotation.AnnotationTarget.*
import kotlin.reflect.KClass
/** * Signals that the annotated annotation
class is a marker of an API that requires an explicit opt-in. * Call sites of any declaration that is either
annotated with such a marker or mentions in its signature any * other declaration that requires opt-in should opt in
to the API either by using [OptIn], * or by being annotated with that marker themselves, effectively causing
further propagation of the opt-in requirement. * The intended uses of opt-in markers include, but are not
limited to the following: * - Experimental API for public preview that might change its semantics or affect binary
compatibility. * - Internal declarations that should not be used outside the declaring library, but are `public` for
technical reasons. * - Fragile or delicate API that needs a lot of expertise to use and thus require an explicit opt-
in. * ## Contagiousness
* * When a declaration is marked with an opt-in requirement, it is considered to be contagious, meaning that all
its uses * or mentions in other declarations will require an explicit opt-in. * A rule of thumb for propagating is
the following: if the marked declaration ceases to exist, only * the places with explicit opt-in (or the corresponding
warning) will break. This rule does not imply transitivity, * e.g. the propagation does not propagate opt-in through
inlining, making it the responsibility `inline` function author * to mark it properly. * ### Type scopes
* * A type is considered requiring opt-in if it is marked with an opt-in marker, or the outer declaration (class or
interface) requires opt-in. * Any use of any declaration that mentions such type in its signature will require an

```



explicit opt-in, even if it is not used directly on the call site, and even if such declarations do not require opt-in directly.

For example, consider the following declarations that are marked with non-propagating opt-in:

```
@UnstableApi class Unstable {
    @OptIn(UnstableApi::class) fun foo(): Unstable = Unstable()
    @OptIn(UnstableApi::class) fun bar(arg: Unstable = Unstable()) {}
    @OptIn(UnstableApi::class) fun Unstable?.baz() {}
}
```

and their respective call sites:

```
fun outerFun() {
    val s = foo()
    bar()
    null.baz()
}
```

Even though call sites do not mention `Unstable` type directly, the corresponding opt-in warning or error will be triggered in each call site due to propagation contagiousness. Note that the propagation is not transitive, i.e. calls to `outerFun` itself would not trigger any further opt-in requirements.

### Lexical scopes

If a type requires an opt-in, such requirement is propagated to its lexical scope and all its nested declarations. For example, for the following scope:

```
@UnstableApi class
Unstable {
    fun memberFun() = ...
    class NestedClass {
        fun nestedFun() = ...
    }
}
```

Any use of `Unstable`, `NestedClass`, or their member functions will require an explicit opt-in.

### Overridden declarations

Opt-in markers are also propagated through the inheritance and interface implementation. If the base declaration requires an opt-in, overriding it requires either an explicit opt-in or propagating the opt-in requirement. See also [Kotlin language

documentation](<https://kotlinlang.org/docs/opt-in-requirements.html>) for more information.

`@property message` message to be reported on usages of API without an explicit opt-in, or empty string for the default message.

The default message is: `"This declaration is experimental and its usage should be marked with 'Marker' or '@OptIn(Marker::class)'"`, where `Marker` is the opt-in requirement marker.

`@property level` specifies how usages of API without an explicit opt-in are reported in code.

```
@Target(ANNOTATION_CLASS)
@Retention(BINARY)
@SinceKotlin("1.3")
public annotation class RequiresOptIn(
    val message: String = "",
    val level: Level = Level.ERROR) {
    /** Severity of the diagnostic that should be reported on usages which did not explicitly opted into the API either by using [OptIn] or by being annotated with the corresponding marker annotation.
    * Specifies that a warning should be reported on incorrect usages of this API.
    * Specifies that a compilation error should be reported on incorrect usages of this API.
    */
    public enum class Level {
        WARNING,
        ERROR
    }
}
```

Allows to use the API denoted by the given markers in the annotated file, declaration, or expression.

If a declaration is annotated with `[OptIn]`, its usages are **not** required to opt in to that API.

`[markerClass]` specifies marker annotations that require explicit opt-in. The marker annotation is not required to be itself marked with `[RequiresOptIn]` to enable gradual migration of API from requiring opt-in to the regular one, yet declaring such `OptIn` yields a compilation warning. See also [Kotlin language

documentation](<https://kotlinlang.org/docs/opt-in-requirements.html>) for more information.

`@property markerClass` specifies marker annotations that require explicit opt-in. @see `RequiresOptIn` for a detailed description of opt-in semantics and propagation rules.

```
@Target(CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE, TYPEALIAS)
@Retention(SOURCE)
@SinceKotlin("1.3")
public annotation class OptIn(
    vararg val markerClass: KClass<out Annotation>)
```

This annotation marks the experimental preview of the language feature `[SubclassOptInRequired]`.

> Note that this API is in a preview state and has a chance of being changed in the future. Do not use it if you develop a library since your library can become source incompatible with the future versions of Kotlin.

```
@Target(CLASS)
@Retention(BINARY)
@SinceKotlin("1.8")
public annotation class ExperimentalSubclassOptIn
```

Annotation that marks open for subclassing classes and interfaces, and makes implementation and extension of such declarations as requiring an explicit opt-in.

When applied, any attempt to subclass the target declaration will trigger an opt-in with the corresponding level and message.

The intended uses of subclass opt-in markers include, but are not limited to the following API:

- Stable to use, but unstable to implement due to its further evolution.
- Stable to use, but closed for 3rd-part

implementations due to internal or technical reasons.  
 \* - Stable to use, but delicate or fragile to implement.  
 \* - Stable to use, but with a contract that may be weakened in the future in a backwards-incompatible manner for external implementations.  
 \* Contrary to regular [RequiresOptIn], there are three ways to opt-in into the subclassing requirement:  
 \* - Annotate declaration with the marker annotation, making it propagating.  
 \* - Annotate declaration with [OptIn] in order to opt in into the provided guarantees in a non-propagating manner.  
 \* - Annotate declaration with [SubclassOptInRequired] with the same marker class, making it further propagating only for subclassing.  
 \* Uses of this annotation are limited to open and abstract classes, and non-`fun` interfaces.  
 Any other uses allowed by `CLASS` annotation target yield a compilation error.  
 \* @property markerClass specifies marker annotation that require explicit opt-in.  
 \* @see RequiresOptIn for a detailed description of opt-in semantics and propagation rules.

```

*\/@Target(CLASS)\n@Retention(BINARY)\n@SinceKotlin("1.8")\n@ExperimentalSubclassOptIn\npublic
annotation class SubclassOptInRequired(\n    val markerClass: KClass<out Annotation>\n)\n"/*\n * Copyright
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by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport
kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationTarget.*\nimport
kotlin.reflect.KClass\n\n\n@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION,
TYPEALIAS)\n@Retention(BINARY)\ninternal annotation class WasExperimental(\n    vararg val markerClass:
KClass<out Annotation>\n)\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport kotlin.js.JsName\n\n/**\n * Provides a skeletal
implementation

```

```

of the read-only [Collection] interface.\n */\n * @param E the type of elements contained in the collection. The
collection is covariant in its element type.\n */\n@SinceKotlin("1.1")\npublic abstract class AbstractCollection<out
E> protected constructor() : Collection<E> {\n    abstract override val size: Int\n    abstract override fun iterator():
Iterator<E>\n    override fun contains(element: @UnsafeVariance E): Boolean = any { it == element }\n    override fun
containsAll(elements: Collection<@UnsafeVariance E>): Boolean =\n        elements.all { contains(it) }\n    // use when js will support bound refs: elements.all(this::contains)\n    override fun isEmpty(): Boolean = size ==
0\n    override fun toString(): String = joinToString(", ", "[", "]") {\n        if (it === this) \"(this Collection)\"
else it.toString()\n    }\n    /**\n     * Returns new array of type `Array<Any?>` with the elements of this
collection.\n     */\n    @JsName("toArray")\n    protected

```

```

open fun toArray(): Array<Any?> = copyToArrayImpl(this)\n    /**\n     * Fills the provided [array] or creates
new array of the same type\n     * and fills it with the elements of this collection.\n     */\n    protected open fun <T>
toArray(array: Array<T>): Array<T> = copyToArrayImpl(this, array)\n}\n"/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nprivate enum class
State {\n    Ready,\n    NotReady,\n    Done,\n    Failed\n}\n\n/**\n * A base class to simplify implementing iterators
so that implementations only have to implement [computeNext]\n * to implement the iterator, calling [done] when
the iteration is complete.\n */\npublic abstract class AbstractIterator<T> : Iterator<T> {\n    private var state =
State.NotReady\n    private var nextValue: T? = null\n    override fun

```

```

hasNext(): Boolean {\n    require(state != State.Failed)\n    return when (state) {\n        State.Done -> false\n        State.Ready -> true\n        else -> tryToComputeNext()\n    }\n}\n\noverride fun next(): T {\n    if
(!hasNext()) throw NoSuchElementException()\n    state = State.NotReady\n    @Suppress("UNCHECKED_CAST")\n    return nextValue as T\n}\n\nprivate fun tryToComputeNext():
Boolean {\n    state = State.Failed\n    computeNext()\n    return state == State.Ready\n}\n\n/**\n *
Computes the next item in the iterator.\n */\n * This callback method should call one of these two methods:\n
*\n * * [setNext] with the next value of the iteration\n * * [done] to indicate there are no more elements\n */\n * Failure to call either method will result in the iteration terminating with a failed state\n */\n\nabstract
protected fun computeNext(): Unit\n\n/**\n * Sets

```



```

internal fun orderedEquals(c: Collection<*>, other: Collection<*>): Boolean {
    if (c.size != other.size)
        return false
    val otherIterator = other.iterator()
    for (elem in c) {
        val elemOther = otherIterator.next()
        if (elem != elemOther)
            return false
    }
    return true
}

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 * license/LICENSE.txt
 *
 * Based on GWT AbstractMap
 * Copyright 2007 Google Inc.
 *
 * Provides a skeletal implementation of the read-only [Map] interface.
 * The implementor is required to implement [entries] property, which should return read-only set of map entries.
 *
 * @param K the type of map keys. The map is invariant in its key type.
 * @param V the type of map values. The map is covariant in its value type.
 *
 * @SinceKotlin("1.1")
 */
public abstract class AbstractMap<K, out V>
protected constructor() : Map<K, V> {
    override fun containsKey(key: K): Boolean {
        return implFindEntry(key) != null
    }
    override fun containsValue(value: @UnsafeVariance V): Boolean =
        entries.any { it.value == value }
    internal fun containsEntry(entry: Map.Entry<*, *>): Boolean {
        // since entry comes from @UnsafeVariance parameters it can be virtually anything
        if (entry !is Map.Entry<*, *>)
            return false
        val key = entry.key
        val value = entry.value
        val ourValue = get(key)
        if (value != ourValue)
            return false
        // Perhaps it was null and we don't contain the key?
        if (ourValue == null && !containsKey(key))
            return false
        return true
    }
    /** Compares this map with other instance with the ordered structural equality.
     * @return true, if [other] instance is a [Map] of the same size, all entries of which are contained in the [entries] set of this map.
     */
    override fun equals(other: Any?): Boolean {
        if (other === this)
            return true
        if (other !is Map<*, *>)
            return false
        if (size != other.size)
            return false
        return other.entries.all { containsEntry(it) }
    }
    override operator fun get(key: K): V? = implFindEntry(key)?.value
    /** Returns the hash code value for this map.
     * It is the same as the hashCode of [entries] set.
     */
    override fun hashCode(): Int =
        entries.hashCode()
    override fun isEmpty(): Boolean = size == 0
    override val size: Int get() =
        entries.size
    /** Returns a read-only [Set] of all keys in this map.
     * Accessing this property first time creates a keys view from [entries].
     * All subsequent accesses just return the created instance.
     */
    override val keys: Set<K>
    get() {
        if (_keys == null)
            _keys = object : AbstractSet<K>() {
                override operator fun contains(element: K): Boolean = containsKey(element)
            }
        return object : Iterator<K> {
            val entryIterator = entries.iterator()
            override fun hasNext(): Boolean = entryIterator.hasNext()
            override
            fun next(): K = entryIterator.next().key
        }
    }
    override val size: Int get() =
        this@AbstractMap.size
    @kotlin.concurrent.Volatile
    private var _keys: Set<K>? = null
    override fun toString(): String =
        entries.joinToString(", ", "{", "}") { toString(it) }
    private fun toString(entry: Map.Entry<K, V>): String =
        toString(entry.key) + "=" + toString(entry.value)
    private fun toString(o: Any?): String =
        if (o === this)
            toString()
        else
            o.toString()
    /** Returns a read-only [Collection] of all values in this map.
     * Accessing this property first time creates a values view from [entries].
     * All subsequent accesses just return the created instance.
     */
    override val values: Collection<V>
    get() {
        if (_values == null)
            _values = object
                : AbstractCollection<V>() {
                    override operator fun contains(element: @UnsafeVariance V): Boolean =
                        containsValue(element)
                    override operator fun iterator(): Iterator<V> {
                        val entryIterator = entries.iterator()
                        return object : Iterator<V> {
                            override fun
                            hasNext(): Boolean = entryIterator.hasNext()
                            override fun
                            next(): V = entryIterator.next().value
                        }
                    }
                    override val size: Int get() = this@AbstractMap.size
                }
        return _values
    }
    @kotlin.concurrent.Volatile
    private var _values: Collection<V>? =

```

```

null\n\n private fun implFindEntry(key: K): Map.Entry<K, V>? = entries.firstOrNull { it.key == key }\n\n
internal companion object {\n\n     internal fun entryHashCode(e: Map.Entry<*, *>): Int = with(e) {
(key?.hashCode()
?: 0) xor (value?.hashCode() ?: 0) }\n     internal fun entryToString(e: Map.Entry<*, *>): String = with(e) {
\"$key=$value\" }\n     internal fun entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {\n         if (other !is
Map.Entry<*, *>) return false\n         return e.key == other.key && e.value == other.value\n     }\n
}\n}\n\n\", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [Set] interface.\n * \n *
This class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.\n
*\n * @param E the type of elements contained in the set. The set is covariant in its element type.\n
*/\n@SinceKotlin(\"1.1\")\npublic abstract class AbstractSet<out E> protected constructor()
: AbstractCollection<E>(), Set<E> {\n\n     /**\n     * Compares this set with other set instance with the unordered
structural equality.\n     *\n     * @return true, if [other] instance is a [Set] of the same size, all elements of which are
contained in this set.\n     *\n     * override fun equals(other: Any?): Boolean {\n         if (other === this) return true\n
if (other !is Set<*>) return false\n         return setEquals(this, other)\n     }\n\n     /**\n     * Returns the hash code
value for this set.\n     *\n     * override fun hashCode(): Int = unorderedHashCode(this)\n\n     internal companion
object {\n         internal fun unorderedHashCode(c: Collection<*>): Int {\n             var hashCode = 0\n             for
(element in c) {\n                 hashCode += (element?.hashCode() ?: 0)\n             }\n             return hashCode\n
}\n\n         internal fun setEquals(c: Set<*>, other: Set<*>): Boolean {\n             if (c.size != other.size) return false\n
return c.containsAll(other)\n         }\n     }\n}\n\n\", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\n/**\n * Resizable-array implementation
of the deque data structure.\n * \n * The name deque is short for \"double ended queue\" and is usually pronounced
\"deck\".\n * \n * The collection provide methods for convenient access to the both ends.\n * It also implements
[MutableList] interface and supports efficient get/set operations by index.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic class ArrayDeque<E> :
AbstractMutableList<E> {\n     private var head: Int = 0\n     private var elementData: Array<Any?>\n     override
var size: Int = 0\n     private set\n\n     /**\n     * Constructs an empty deque with specified [initialCapacity], or
throws [IllegalArgumentException]
if [initialCapacity] is negative.\n     *\n     * public constructor(initialCapacity: Int) {\n         elementData = when {\n
initialCapacity == 0 -> emptyElementData\n             initialCapacity > 0 -> arrayOfNulls(initialCapacity)\n
else -> throw IllegalArgumentException(\"Illegal Capacity: $initialCapacity\")\n         }\n     }\n\n     /**\n     *
Constructs an empty deque.\n     *\n     * public constructor() {\n         elementData = emptyElementData\n     }\n\n
/**\n     * Constructs a deque that contains the same elements as the specified [elements] collection in the same
order.\n     *\n     * public constructor(elements: Collection<E>) {\n         elementData = elements.toArray()\n
size = elementData.size\n         if (elementData.isEmpty()) elementData = emptyElementData\n     }\n\n     /**\n     *
Ensures that the capacity of this deque is at least equal to the specified [minCapacity].\n     *\n     * If the current
capacity is less than the
[minCapacity], a new backing storage is allocated with greater capacity.\n     * Otherwise, this method takes no
action and simply returns.\n     *\n     * private fun ensureCapacity(minCapacity: Int) {\n         if (minCapacity < 0)
throw IllegalStateException(\"Deque is too big.\") // overflow\n         if (minCapacity <= elementData.size) return\n
if (elementData === emptyElementData) {\n             elementData =
arrayOfNulls(minCapacity.coerceAtLeast(defaultMinCapacity))\n             return\n         }\n         val newCapacity =
newCapacity(elementData.size, minCapacity)\n         copyElements(newCapacity)\n     }\n\n     /**\n     * Creates a
new array with the specified [newCapacity] size and copies elements in the [elementData] array to it.\n     *\n     *
private fun copyElements(newCapacity: Int) {\n         val newElements = arrayOfNulls<Any?>(newCapacity)\n

```

```

elementData.copyInto(newElements, 0, head, elementData.size)\n    elementData.copyInto(newElements,
elementData.size
- head, 0, head)\n    head = 0\n    elementData = newElements\n }\n\n @kotlin.internal.InlineOnly\n private inline fun internalGet(internalIndex: Int): E {\n    @Suppress("UNCHECKED_CAST")\n    return
elementData[internalIndex] as E\n }\n\n private fun positiveMod(index: Int): Int = if (index >=
elementData.size) index - elementData.size else index\n\n private fun negativeMod(index: Int): Int = if (index < 0)
index + elementData.size else index\n\n @kotlin.internal.InlineOnly\n private inline fun internalIndex(index:
Int): Int = positiveMod(head + index)\n\n private fun incremented(index: Int): Int = if (index ==
elementData.lastIndex) 0 else index + 1\n\n private fun decremented(index: Int): Int = if (index == 0)
elementData.lastIndex else index - 1\n\n override fun isEmpty(): Boolean = size == 0\n\n /**\n * Returns the
first element, or throws [NoSuchElementException] if this deque is empty.\n */\n public fun
first(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.") else internalGet(head)\n\n
/**\n * Returns the first element, or `null` if this deque is empty.\n */\n public fun firstOrNull(): E? = if
(isEmpty()) null else internalGet(head)\n\n /**\n * Returns the last element, or throws
[NoSuchElementException] if this deque is empty.\n */\n public fun last(): E = if (isEmpty()) throw
NoSuchElementException("ArrayDeque is empty.") else internalGet(internalIndex(lastIndex))\n\n /**\n *
Returns the last element, or `null` if this deque is empty.\n */\n public fun lastOrNull(): E? = if (isEmpty()) null
else internalGet(internalIndex(lastIndex))\n\n /**\n * Prepends the specified [element] to this deque.\n */\n
public fun addFirst(element: E) {\n    ensureCapacity(size + 1)\n\n    head = decremented(head)\n
elementData[head] = element\n    size += 1\n }\n\n /**\n * Appends the specified
[element] to this deque.\n */\n public fun addLast(element: E) {\n    ensureCapacity(size + 1)\n
elementData[internalIndex(size)] = element\n    size += 1\n }\n\n /**\n * Removes the first element from
this deque and returns that removed element, or throws [NoSuchElementException] if this deque is empty.\n */\n
public fun removeFirst(): E {\n    if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")\n\n
val element = internalGet(head)\n    elementData[head] = null\n    head = incremented(head)\n    size -= 1\n
return element\n }\n\n /**\n * Removes the first element from this deque and returns that removed
element, or returns `null` if this deque is empty.\n */\n public fun removeFirstOrNull(): E? = if (isEmpty()) null
else removeFirst()\n\n /**\n * Removes the last element from this deque and returns that removed element, or
throws [NoSuchElementException] if this deque
is empty.\n */\n public fun removeLast(): E {\n    if (isEmpty()) throw
NoSuchElementException("ArrayDeque is empty.")\n\n    val internalLastIndex = internalIndex(lastIndex)\n
val element = internalGet(internalLastIndex)\n    elementData[internalLastIndex] = null\n    size -= 1\n
return element\n }\n\n /**\n * Removes the last element from this deque and returns that removed element, or
returns `null` if this deque is empty.\n */\n public fun removeLastOrNull(): E? = if (isEmpty()) null else
removeLast()\n\n // MutableList, MutableCollection\n public override fun add(element: E): Boolean {\n
addLast(element)\n    return true\n }\n\n public override fun add(index: Int, element: E) {\n
AbstractList.checkPositionIndex(index, size)\n\n    if (index == size) {\n        addLast(element)\n
return\n    } else if (index == 0) {\n        addFirst(element)\n        return\n    }\n\n    ensureCapacity(size + 1)\n\n    // Elements in circular array lay in 2 ways:\n    // 1. `head` is less
than `tail`:  [#, #, e1, e2, e3, #]\n    // 2. `head` is greater than `tail`:  [e3, #, #, #, e1, e2]\n    // where head
is the index of the first element in the circular array,\n    // and tail is the index following the last element.\n
/>\n    // At this point the insertion index is not equal to head or tail.\n    // Also the circular array can store at
least one more element.\n    /\n    // Depending on where the given element must be inserted the preceding or
the succeeding\n    // elements will be shifted to make room for the element to be inserted.\n    /\n    // In case
the preceding elements are shifted:\n    // * if the insertion index is greater than the head (regardless of circular
array form)\n    // -> shift the preceding elements\n    // * otherwise, the circular array has
(2) form and the insertion index is less than tail\n    // -> shift all elements in the back of the array\n    // -
> shift preceding elements in the front of the array\n    // In case the succeeding elements are shifted:\n    // * if

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the insertion index is less than the tail (regardless of circular array form)\n    // -> shift the succeeding
elements\n    // * otherwise, the circular array has (2) form and the insertion index is greater than head\n    //
-> shift all elements in the front of the array\n    // -> shift succeeding elements in the back of the array\n\n
val internalIndex = internalIndex(index)\n\n    if (index < (size + 1) shr 1) {\n        // closer to the first element -
> shift preceding elements\n        val decrementedInternalIndex = decremented(internalIndex)\n        val
decrementedHead = decremented(head)\n\n        if (decrementedInternalIndex >= head) {\n
elementData[decrementedHead]
= elementData[head] // head can be zero\n        elementData.copyInto(elementData, head, head + 1,
decrementedInternalIndex + 1)\n        } else { // head > tail\n        elementData.copyInto(elementData, head -
1, head, elementData.size) // head can't be zero\n        elementData[elementData.size - 1] = elementData[0]\n
        elementData.copyInto(elementData, 0, 1, decrementedInternalIndex + 1)\n        }\n\n
elementData[decrementedInternalIndex] = element\n        head = decrementedHead\n    } else {\n        //
closer to the last element -> shift succeeding elements\n        val tail = internalIndex(size)\n\n        if
(internalIndex < tail) {\n        elementData.copyInto(elementData, internalIndex + 1, internalIndex, tail)\n
} else { // head > tail\n        elementData.copyInto(elementData, 1, 0, tail)\n        elementData[0] =
elementData[elementData.size
- 1]\n        elementData.copyInto(elementData, internalIndex + 1, internalIndex, elementData.size - 1)\n
}\n\n        elementData[internalIndex] = element\n    }\n    size += 1\n }\n\n private fun
copyCollectionElements(internalIndex: Int, elements: Collection<E>) {\n    val iterator = elements.iterator()\n\n
for (index in internalIndex until elementData.size) {\n        if (!iterator.hasNext()) break\n
elementData[index] = iterator.next()\n    }\n    for (index in 0 until head) {\n        if (!iterator.hasNext())
break\n        elementData[index] = iterator.next()\n    }\n    size += elements.size\n }\n\n public override
fun addAll(elements: Collection<E>): Boolean {\n    if (elements.isEmpty()) return false\n
ensureCapacity(this.size + elements.size)\n    copyCollectionElements(internalIndex(size), elements)\n    return
true\n }\n\n public override fun addAll(index:
Int, elements: Collection<E>): Boolean {\n    AbstractList.checkPositionIndex(index, size)\n\n    if
(elements.isEmpty()) {\n        return false\n    } else if (index == size) {\n        return addAll(elements)\n
}\n\n    ensureCapacity(this.size + elements.size)\n\n    val tail = internalIndex(size)\n    val internalIndex =
internalIndex(index)\n    val elementsSize = elements.size\n\n    if (index < (size + 1) shr 1) {\n        // closer
to the first element -> shift preceding elements\n        var shiftedHead = head - elementsSize\n\n        if
(internalIndex >= head) {\n            if (shiftedHead >= 0) {\n                elementData.copyInto(elementData,
shiftedHead, head, internalIndex)\n            } else { // head < tail, insertion leads to head >= tail\n
shiftedHead += elementData.size\n            val elementsToShift = internalIndex - head\n            val
shiftToBack
= elementData.size - shiftedHead\n\n            if (shiftToBack >= elementsToShift) {\n
elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n            } else {\n
elementData.copyInto(elementData, shiftedHead, head, head + shiftToBack)\n
elementData.copyInto(elementData, 0, head + shiftToBack, internalIndex)\n            }\n        }\n    }
else { // head > tail, internalIndex < tail\n        elementData.copyInto(elementData, shiftedHead, head,
elementData.size)\n        if (elementsSize >= internalIndex) {\n            elementData.copyInto(elementData,
elementData.size - elementsSize, 0, internalIndex)\n        } else {\n
elementData.copyInto(elementData, elementData.size - elementsSize, 0, elementsSize)\n
elementData.copyInto(elementData, 0, elementsSize, internalIndex)\n
        }\n    }\n    head = shiftedHead\n    copyCollectionElements(negativeMod(internalIndex -
elementsSize), elements)\n    } else {\n        // closer to the last element -> shift succeeding elements\n\n
val shiftedInternalIndex = internalIndex + elementsSize\n\n        if (internalIndex < tail) {\n            if (tail +
elementsSize <= elementData.size) {\n                elementData.copyInto(elementData, shiftedInternalIndex,
internalIndex, tail)\n            } else { // head < tail, insertion leads to head >= tail\n                if

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(this.isEmpty() || elementData.isEmpty())\n        return false\n\n        val tail = internalIndex(size)\n        var newTail = head\n        var modified = false\n        if (head < tail) {\n            for (index in head until tail)\n            {\n                val element = elementData[index]\n                @Suppress("UNCHECKED_CAST")\n                if\n                (predicate(element as E))\n                elementData[newTail++] = element\n                else\n                modified =\n                true\n            }\n            elementData.fill(null, newTail, tail)\n        } else {\n            for (index in head until\n            elementData.size) {\n                val element = elementData[index]\n                elementData[index] = null\n                @Suppress("UNCHECKED_CAST")\n                if (predicate(element as E))\n                elementData[newTail++] = element\n                else\n                modified = true\n            }\n            newTail =\n            positiveMod(newTail)\n            for (index in 0 until tail) {\n                val element = elementData[index]\n                elementData[index] = null\n                @Suppress("UNCHECKED_CAST")\n                if\n                (predicate(element as E)) {\n                    elementData[newTail] = element\n                    newTail =\n                    incremented(newTail)\n                } else {\n                    modified = true\n                }\n            }\n            if\n            (modified)\n            size = negativeMod(newTail - head)\n            return modified\n        }\n        public override fun\n        clear() {\n            val tail = internalIndex(size)\n            if (head < tail) {\n                elementData.fill(null, head, tail)\n            }\n            else if (isNotEmpty()) {\n                elementData.fill(null, head, elementData.size)\n                elementData.fill(null, 0,\n                tail)\n            }\n            head = 0\n            size = 0\n        }\n        @Suppress("NOTHING_TO_OVERRIDE")\n        override\n        fun <T> toArray(array: Array<T>): Array<T> {\n            @Suppress("UNCHECKED_CAST")\n            val dest = (if\n            (array.size >= size) array\n            else arrayOfNulls(array, size)) as Array<Any?>\n            val tail = internalIndex(size)\n            if (head < tail) {\n                elementData.copyInto(dest, startIndex = head, endIndex = tail)\n            } else if (isNotEmpty()) {\n                elementData.copyInto(dest, destinationOffset = 0, startIndex = head, endIndex = elementData.size)\n                elementData.copyInto(dest, destinationOffset = elementData.size - head, startIndex = 0, endIndex = tail)\n            }\n            if (dest.size > size) {\n                dest[size] = null // null-terminate\n            }\n            @Suppress("UNCHECKED_CAST")\n            return dest as Array<T>\n        }\n        @Suppress("NOTHING_TO_OVERRIDE")\n        override fun toArray(): Array<Any?> {\n            return\n            toArray(arrayOfNulls<Any?>(size))\n        }\n        // for testing\n        internal fun <T> testToArray(array: Array<T>):\n        Array<T> = toArray(array)\n        internal fun testToArray(): Array<Any?> = toArray()\n        internal companion\n        object {\n            private val\n            emptyElementData = emptyArray<Any?>()\n            private const val maxArraySize = Int.MAX_VALUE - 8\n            private const val defaultMinCapacity = 10\n            internal fun newCapacity(oldCapacity: Int, minCapacity: Int): Int {\n                // overflow-conscious\n                var newCapacity = oldCapacity + (oldCapacity shr 1)\n                if\n                (newCapacity - minCapacity < 0)\n                newCapacity = minCapacity\n                if (newCapacity - maxArraySize\n                > 0)\n                newCapacity = if (minCapacity > maxArraySize) Int.MAX_VALUE else maxArraySize\n                return newCapacity\n            }\n            // For testing only\n            internal fun internalStructure(structure: (head: Int,\n            elements: Array<Any?>) -> Unit) {\n                val tail = internalIndex(size)\n                val head = if (isEmpty() || head < tail)\n                head else head - elementData.size\n                structure(head, toArray())\n            }\n        }\n        /*\n        * Copyright 2010-2018 JetBrains\n        s.r.o. and Kotlin Programming Language contributors.\n        */\n        Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n        *\n        * @file: kotlin.jvm.JvmMultifileClass\n        * @file: kotlin.jvm.JvmName("ArraysKt")\n        * package\n        kotlin.collections\n        * \n        * Returns a single list of all elements from all arrays in the\n        given array.\n        * @sample samples.collections.Arrays.Transformations.flattenArray\n        *\n        public fun <T> Array<out\n        Array<out T>>.flatten(): List<T> {\n            val result = ArrayList<T>(sumOf { it.size })\n            for (element in this) {\n                result.addAll(element)\n            }\n            return result\n        }\n        *\n        * Returns a pair of lists, where\n        * *first* list is built from\n        the first values of each pair from this array,\n        * *second* list is built from the second values of each pair from this\n        array.\n        * @sample samples.collections.Arrays.Transformations.unzipArray\n        *\n        public fun <T, R> Array<out\n        Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n            val listT = ArrayList<T>(size)\n            val listR = ArrayList<R>(size)\n            for (pair in this) {\n                listT.add(pair.first)\n                listR.add(pair.second)\n            }\n            return listT to listR\n        }\n        *\n        * Returns `true` if this nullable array is either null or empty.\n        * @sample

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samples.collections.Arrays.Usage.arrayIsNullOrEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun Array<*>?.isNullOrEmpty(): Boolean
{\n contract {\n returns(false) implies (this@isNullOrEmpty != null)\n }\n\n return this == null ||
this.isEmpty()\n}\n\n**\n * Returns this array if it's not empty\n * or the result of calling [defaultValue] function if
the array is empty.\n *\n * @sample samples.collections.Arrays.Usage.arrayIfEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("UPPER_BOUND_CANNOT_BE_ARRAY")\n
)\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =\n if (isEmpty())
defaultValue() else
this\n\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.Jvm
Name("contentDeepEquals")\n@kotlin.js.JsName("contentDeepEqualsImpl")\ninternal
fun <T> Array<out T>?.contentDeepEqualsImpl(other: Array<out T>?): Boolean {\n if (this === other) return
true\n if (this == null || other == null || this.size != other.size) return false\n\n for (i in indices) {\n val v1 =
this[i]\n val v2 = other[i]\n if (v1 === v2) {\n continue\n } else if (v1 == null || v2 == null) {\n
return false\n }\n\n when {\n v1 is Array<*> && v2 is Array<*> -> if
(!v1.contentDeepEquals(v2)) return false\n v1 is ByteArray && v2 is ByteArray -> if
(!v1.contentEquals(v2)) return false\n v1 is ShortArray && v2 is ShortArray -> if (!v1.contentEquals(v2))
return false\n v1 is IntArray && v2 is IntArray -> if (!v1.contentEquals(v2)) return false\n v1 is
LongArray
&& v2 is LongArray -> if (!v1.contentEquals(v2)) return false\n v1 is FloatArray && v2 is FloatArray
-> if (!v1.contentEquals(v2)) return false\n v1 is DoubleArray && v2 is DoubleArray -> if
(!v1.contentEquals(v2)) return false\n v1 is CharArray && v2 is CharArray -> if (!v1.contentEquals(v2))
return false\n v1 is BooleanArray && v2 is BooleanArray -> if (!v1.contentEquals(v2)) return false\n\n
v1 is UByteArray && v2 is UByteArray -> if (!v1.contentEquals(v2)) return false\n v1 is UShortArray
&& v2 is UShortArray -> if (!v1.contentEquals(v2)) return false\n v1 is UIntArray && v2 is UIntArray -
-> if (!v1.contentEquals(v2)) return false\n v1 is ULongArray && v2 is ULongArray -> if
(!v1.contentEquals(v2)) return false\n\n else -> if (v1 != v2) return false\n }\n\n }\n return
true\n}\n\n\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.JvmName("contentDeepToString")\n@kotlin.js.
JsName("contentDeepToStringImpl")\ninternal
fun <T> Array<out T>?.contentDeepToStringImpl(): String {\n if (this == null) return "null"\n val length =
size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not to overflow Int.MAX_VALUE\n return
buildString(length) {\n contentDeepToStringInternal(this, mutableListOf())\n
}\n}\n\n\n@OptIn(ExperimentalUnsignedTypes::class)\nprivate fun <T> Array<out
T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {\n if (this in
processed) {\n result.append("[...]")\n return\n }\n processed.add(this)\n result.append('[')\n\n for (i
in indices) {\n if (i != 0) {\n result.append(", ")\n }\n val element = this[i]\n when
(element) {\n null -> result.append("null")\n is Array<*> ->
element.contentDeepToStringInternal(result, processed)\n is ByteArray -> result.append(element.contentToString())\n
is ShortArray -> result.append(element.contentToString())\n is IntArray -> result.append(element.contentToString())\n
is LongArray -> result.append(element.contentToString())\n is FloatArray -> result.append(element.contentToString())\n
is DoubleArray -> result.append(element.contentToString())\n is CharArray -> result.append(element.contentToString())\n
is BooleanArray -> result.append(element.contentToString())\n is UByteArray -> result.append(element.contentToString())\n
is UShortArray -> result.append(element.contentToString())\n is UIntArray -> result.append(element.contentToString())\n
is ULongArray -> result.append(element.contentToString())\n\n else -> result.append(element.toString())\n }\n }\n\n result.append('']')\n
processed.removeAt(processed.lastIndex)\n}"/*\n

```

\* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage kotlin.collections\n\n/\*\*\n \* Data class representing a value from a collection or sequence, along with its index in that collection or sequence.\n \*\n \* @property value the underlying value.\n \* @property index the index of the value in the collection or sequence.\n \*/\n\npublic data class IndexedValue<out T>(public val index: Int, public val value: T)\n\n"/\*\n \* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\n@file:kotlin.jvm.JvmName("MapAccessorsKt")\n\npackage kotlin.collections\n\nimport kotlin.reflect.KProperty\nimport kotlin.internal.Exact\n\n/\*\*\n \* Returns the value of the property for the given object from this read-only map.\n \*\n \* @param thisRef the object for which the value is requested (not used).\n \* @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\n \*\n \* @return the property value.\n \*\n \* @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\n \*/\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> Map<in String, @Exact V>.getValue(thisRef: Any?, property: KProperty<\*>): V1 =\n @Suppress("UNCHECKED\_CAST")\n (getOrImplicitDefault(property.name) as V1)\n\n/\*\*\n \* Returns the value of the property for the given object from this mutable map.\n \*\n \* @param thisRef the object for which the value is requested (not used).\n \* @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\n \*\n \* @return the property value.\n \*\n \* @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\n \*/\n\n@kotlin.jvm.JvmName("getVar")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property: KProperty<\*>): V1 =\n @Suppress("UNCHECKED\_CAST")\n (getOrImplicitDefault(property.name) as V1)\n\n/\*\*\n \* Stores the value of the property for the given object in this mutable map.\n \*\n \* @param thisRef the object for which the value is requested (not used).\n \* @param property the metadata for the property, used to get the name of property and store the value associated with that name in the map.\n \* @param value the value to set.\n \*/\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <V> MutableMap<in String, in V>.setValue(thisRef: Any?, property: KProperty<\*>, value: V) {\n this.put(property.name, value)\n}\n\n"/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n\npackage kotlin.collections\n\n/\*\*\n \* Returns the value for the given key, or the implicit default value for this map.\n \* By default no implicit value is provided for maps and a [NoSuchElementException] is thrown.\n \* To create a map with implicit default value use [withDefault] method.\n \*\n \* @throws NoSuchElementException when the map doesn't contain a value for the specified key and no implicit default was provided for that map.\n \*/\n\n@kotlin.jvm.JvmName("getOrImplicitDefaultNullable")\n@PublishedApi\ninternal fun <K, V> Map<K, V>.getOrImplicitDefault(key: K): V {\n if (this is MapWithDefault)\n return this.getOrImplicitDefault(key)\n return getOrElseNullable(key, { throw NoSuchElementException("Key \$key is missing in the map.") })\n}\n\n/\*\*\n \* Returns a wrapper of this read-only map, having the implicit default value provided with the specified function [defaultValue].\n \*\n \* This implicit default value is used when the original map doesn't contain a value for the key specified\n \* and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\n \*\n \* When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\n \*/\n\npublic fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =\n when (this) {\n is MapWithDefault -> this.map.withDefault(defaultValue)\n else -> MapWithDefaultImpl(this, defaultValue)\n }\n\n/\*\*\n \* Returns a wrapper of this mutable map, having the implicit default value provided with the specified function [defaultValue].\n \*\n \* This implicit default value is used when the original

map doesn't contain a value for the key specified\n \* and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\n \* When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\n

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*/\n@kotlin.jvm.JvmName("\nwithDefaultMutable")\npublic fun <K, V> MutableMap<K, V>.\nwithDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =\n    when (this) {\n        is\n        MutableMapWithDefault -> this.map.withDefault(defaultValue)\n        else -> MutableMapWithDefaultImpl(this,\n        defaultValue)\n    }\n\nprivate interface MapWithDefault<K, out V> : Map<K, V> {\n    public val map: Map<K, V>:\n    public fun getOrImplicitDefault(key: K): V\n}\n\nprivate interface MutableMapWithDefault<K, V> : \nMutableMap<K, V>, MapWithDefault<K, V> {\n    public override val map: MutableMap<K, V>:\n}\n\nprivate \nclass MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default:\n(key: K) -> V) : MapWithDefault<K, V> {\n    override fun equals(other: Any?): Boolean = map.equals(other)\n    override fun hashCode(): Int = map.hashCode()\n    override fun toString(): String = map.toString()\n    override val size: Int get() = map.size\n    override fun isEmpty(): Boolean = map.isEmpty()\n    override fun containsKey(key: K): Boolean = map.containsKey(key)\n    override fun containsValue(value: @UnsafeVariance V): Boolean =\nmap.containsKey(value)\n    override fun get(key: K): V? = map.get(key)\n    override val keys: Set<K> get() =\nmap.keys\n    override val values: Collection<V> get() = map.values\n    override val entries: Set<Map.Entry<K, V>> get() =\nmap.entries\n    override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, {\n        default(key) })\n}\n\nprivate class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K, V>,\nprivate val default: (key: K) -> V) : MutableMapWithDefault<K, V> {\n    override fun equals(other: Any?):\nBoolean = map.equals(other)\n    override fun hashCode(): Int = map.hashCode()\n    override fun toString(): String =\nmap.toString()\n    override val size: Int get() = map.size\n    override fun isEmpty(): Boolean = map.isEmpty()\n    override fun containsKey(key: K): Boolean = map.containsKey(key)\n    override fun containsValue(value: @UnsafeVariance V): Boolean =\nmap.containsKey(value)\n    override fun get(key: K): V? = map.get(key)\n    override val keys: MutableSet<K> get() = map.keys\n    override val values: MutableCollection<V> get() =\nmap.values\n    override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() =\nmap.entries\n    override fun put(key: K, value: V): V? = map.put(key, value)\n    override fun remove(key: K): V? =\nmap.remove(key)\n    override fun putAll(from: Map<out K, V>) = map.putAll(from)\n    override fun clear() =\nmap.clear()\n    override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, {\n        default(key) })\n}\n\n"/\n * Copyright
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*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\nCollectionsKt")\n\npackage\nkotlin.collections\n\n/**\n * Removes a single instance of the specified element from this\n * collection, if it is present.\n * Allows to overcome type-safety restriction of `remove` that requires to pass an element of type `E`.\n * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> \nMutableCollection<out T>.remove(element: T): Boolean =\n    @Suppress("\nUNCHECKED_CAST") (this as\nMutableCollection<T>).remove(element)\n\n/**\n * Removes all of this collection's elements that are also contained in the specified collection.\n * Allows to overcome type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`.\n * @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> \nMutableCollection<out T>.removeAll(elements: Collection<T>): Boolean =\n    @Suppress("\nUNCHECKED_CAST") (this as\nMutableCollection<T>).removeAll(elements)\n\n/**\n * Retains only the elements in this collection that are contained in the specified collection.\n * Allows to overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.\n * @return `true` if any element was removed from the collection, `false` if the collection was not modified.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> \nMutableCollection<out T>.retainAll(elements: Collection<T>): Boolean =\n
```

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@Suppress("UNCHECKED_CAST")
    (this as MutableCollection<T>).retainAll(elements)\n\n/**\n * Adds the specified [element] to this mutable
collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in
T>.plusAssign(element: T) {\n    this.add(element)\n}\n\n/**\n * Adds all elements of the given [elements]
collection to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
MutableCollection<in T>.plusAssign(elements: Iterable<T>) {\n    this.addAll(elements)\n}\n\n/**\n * Adds all
elements of the given [elements] array to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline
operator fun <T> MutableCollection<in T>.plusAssign(elements: Array<T>) {\n
    this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] sequence to this mutable collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements:
Sequence<T>) {\n    this.addAll(elements)\n}\n\n/**\n *
Removes a single instance of the specified [element] from this mutable collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(element: T)
{\n    this.remove(element)\n}\n\n/**\n * Removes all elements contained in the given [elements] collection from
this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in
T>.minusAssign(elements: Iterable<T>) {\n    this.removeAll(elements)\n}\n\n/**\n * Removes all elements
contained in the given [elements] array from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic
inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Array<T>) {\n
    this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements] sequence from this
mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in
T>.minusAssign(elements:
Sequence<T>) {\n    this.removeAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] collection to
this [MutableCollection].\n */\npublic fun <T> MutableCollection<in T>.addAll(elements: Iterable<T>): Boolean
{\n    when (elements) {\n        is Collection -> return addAll(elements)\n        else -> {\n            var result: Boolean
= false\n            for (item in elements)\n                if (add(item)) result = true\n            return result\n        }\n
}\n}\n\n/**\n * Adds all elements of the given [elements] sequence to this [MutableCollection].\n */\npublic fun
<T> MutableCollection<in T>.addAll(elements: Sequence<T>): Boolean {\n    var result: Boolean = false\n    for
(item in elements) {\n        if (add(item)) result = true\n    }\n    return result\n}\n\n/**\n * Adds all elements of the
given [elements] array to this [MutableCollection].\n */\npublic fun <T> MutableCollection<in T>.addAll(elements:
Array<out T>): Boolean {\n    return addAll(elements.asList())\n}\n\n/**\n *
Converts this [Iterable] to a list if it is not a [Collection].\n * Otherwise, returns this.\n */\ninternal fun <T>
Iterable<T>.convertToListIfNotCollection(): Collection<T> =\n    if (this is Collection) this else toList()\n\n/**\n *
Removes all elements from this [MutableCollection] that are also contained in the given [elements] collection.\n
*/\npublic fun <T> MutableCollection<in T>.removeAll(elements: Iterable<T>): Boolean {\n    return
removeAll(elements.convertToListIfNotCollection())\n}\n\n/**\n * Removes all elements from this
[MutableCollection] that are also contained in the given [elements] sequence.\n */\npublic fun <T>
MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {\n    val list = elements.toList()\n    return
list.isNotEmpty() && removeAll(list)\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are
also contained in the given [elements] array.\n */\npublic fun <T> MutableCollection<in T>.removeAll(elements:
Array<out T>): Boolean {\n    return elements.isNotEmpty() && removeAll(elements.asList())\n}\n\n/**\n *
Retains only elements of this [MutableCollection] that are contained in the given [elements] collection.\n
*/\npublic fun <T> MutableCollection<in T>.retainAll(elements: Iterable<T>): Boolean {\n    return
retainAll(elements.convertToListIfNotCollection())\n}\n\n/**\n * Retains only elements of this [MutableCollection]
that are contained in the given [elements] array.\n */\npublic fun <T> MutableCollection<in T>.retainAll(elements:
Array<out T>): Boolean {\n    if (elements.isNotEmpty())\n        return retainAll(elements.asList())\n    else\n
return retainNothing()\n}\n\n/**\n * Retains only elements of this [MutableCollection] that are contained in the
given [elements] sequence.\n */\npublic fun <T> MutableCollection<in T>.retainAll(elements: Sequence<T>):
Boolean {\n    val list = elements.toList()\n    if (list.isNotEmpty())\n        return retainAll(list)\n    else\n

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return retainNothing()\n\nprivate fun MutableCollection<*>.retainNothing(): Boolean {\n    val result =
isEmpty()\n    clear()\n    return result\n}\n\n/**\n * Removes all elements from this [MutableIterable] that
match the given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when
no elements were removed and collection was not modified.\n */\npublic fun <T>
MutableIterable<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)\n\n/**\n * Retains only elements of this [MutableIterable] that match the given [predicate].\n *\n * @return `true` if any
element was removed from this collection, or `false` when all elements were retained and collection was not
modified.\n */\npublic fun <T> MutableIterable<T>.retainAll(predicate: (T) -> Boolean): Boolean =
filterInPlace(predicate, false)\n\nprivate fun <T> MutableIterable<T>.filterInPlace(predicate: (T) -> Boolean,
predicateResultToRemove: Boolean): Boolean
{\n    var result = false\n    with(iterator()) {\n        while (hasNext())\n            if (predicate(next()) ==
predicateResultToRemove) {\n                remove()\n                result = true\n            }\n    }\n    return
result\n}\n\n/**\n * Removes the element at the specified [index] from this list.\n * In Kotlin one should use the
[MutableList.removeAt] function instead.\n *\n * @Deprecated("Use removeAt(index) instead.")
ReplaceWith("removeAt(index)", level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline
fun <T> MutableList<T>.remove(index: Int): T = removeAt(index)\n\n/**\n * Removes the first element from this
mutable list and returns that removed element, or throws [NoSuchElementException] if this list is empty.\n
*\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\n */\npublic fun <T>
MutableList<T>.removeFirst(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else
removeAt(0)\n\n/**\n * Removes the
first element from this mutable list and returns that removed element, or returns `null` if this list is empty.\n
*\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\n */\npublic fun <T>
MutableList<T>.removeFirstOrNull(): T? = if (isEmpty()) null else removeAt(0)\n\n/**\n * Removes the last
element from this mutable list and returns that removed element, or throws [NoSuchElementException] if this list is
empty.\n *\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\n */\npublic fun <T>
MutableList<T>.removeLast(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else
removeAt(lastIndex)\n\n/**\n * Removes the last element from this mutable list and returns that removed element,
or returns `null` if this list is empty.\n
*\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\n */\npublic fun <T>
MutableList<T>.removeLastOrNull(): T? = if (isEmpty()) null else removeAt(lastIndex)\n\n/**\n * Removes all
elements from this
[MutableList] that match the given [predicate].\n *\n * @return `true` if any element was removed from this
collection, or `false` when no elements were removed and collection was not modified.\n */\npublic fun <T>
MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)\n\n/**\n * Retains
only elements of this [MutableList] that match the given [predicate].\n *\n * @return `true` if any element was
removed from this collection, or `false` when all elements were retained and collection was not modified.\n
*/\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate,
false)\n\nprivate fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove:
Boolean): Boolean {\n    if (this !is RandomAccess)\n        return (this as
MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)\n\n    var writeIndex: Int = 0\n    for
(readIndex in 0..lastIndex) {\n        val element
= this[readIndex]\n        if (predicate(element) == predicateResultToRemove)\n            continue\n        if
(writeIndex != readIndex)\n            this[writeIndex] = element\n            writeIndex++\n    }\n    if (writeIndex < size)
{\n        for (removeIndex in lastIndex downTo writeIndex)\n            removeAt(removeIndex)\n        return true\n
    } else {\n        return false\n    }\n}\n\n"/**\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.collections\n\n/**\n * An
iterator over a sequence of values of type `Byte`.\n */\npublic abstract class ByteIterator : Iterator<Byte> {\n

```



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    override fun set(element: T) = delegateIterator.set(element)\n    }\n}\n\nprivate fun
List<*>.reverseElementIndex(index: Int) =\n    if (index in 0..lastIndex) lastIndex - index else throw
IndexOutOfBoundsException("Element index $index must be in range [0..lastIndex].")\n\nprivate fun
List<*>.reversePositionIndex(index: Int) =\n    if (index in 0..size) size - index else throw
IndexOutOfBoundsException("Position index $index must be in range [0..size].")\n\nprivate fun
List<*>.reverseIteratorIndex(index: Int) = lastIndex - index\n\n/**\n * Returns a reversed read-only view of the
original List.\n * All changes made in the original list will be reflected in the reversed one.\n * @sample
samples.collections.ReversedViews.asReversedList\n */\npublic fun <T> List<T>.asReversed(): List<T> =
ReversedListReadOnly(this)\n\n/**\n * Returns a reversed mutable view of the original mutable List.\n * All
changes made in the original list will be reflected
in the reversed one and vice versa.\n * @sample samples.collections.ReversedViews.asReversedMutableList\n
*/\n\n@kotlin.jvm.JvmName("asReversedMutable")\npublic fun <T> MutableList<T>.asReversed():
MutableList<T> = ReversedList(this)\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n@file:OptIn(Experimenta
lTypeInference::class)\n\npackage kotlin.sequences\n\nimport kotlin.coroutines.*\nimport
kotlin.coroutines.intrinsics.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Builds a
[Sequence] lazily yielding values one by one.\n * @see kotlin.sequences.generateSequence\n */\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("DEPRECATION")\npublic
fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>().-> Unit): Sequence<T> = Sequence {
iterator(block) }\n\n/**\n * Builds an [Iterator] lazily yielding values one by one.\n * @sample
samples.collections.Sequences.Building.buildIterator\n * @sample samples.collections.Iterables.Building.iterable\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("DEPRECATION")\npublic fun <T> iterator(@BuilderInference block:
suspend SequenceScope<T>().-> Unit): Iterator<T> {\n    val iterator = SequenceBuilderIterator<T>()\n
iterator.nextStep = block.createCoroutineUnintercepted(receiver = iterator, completion = iterator)\n    return
iterator\n}\n\n/**\n * The scope for yielding values of a [Sequence] or an [Iterator], provides [yield] and [yieldAll]
suspension functions.\n * @see sequence\n * @see iterator\n */\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*/\n\n@RestrictsSuspension\n@SinceKotlin("1.3")\npublic abstract class SequenceScope<in T> internal
constructor() {\n    /**\n     * Yields a value to the [Iterator] being built and suspends\n     * until the next value is
requested.\n     */\n     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n     * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n     */\n     public abstract suspend fun yield(value:
T)\n\n    /**\n     * Yields all values from the `iterator` to the [Iterator] being built\n     * and suspends until all these
values are iterated and the next one is requested.\n     */\n     * The sequence of values returned by the given iterator
can be potentially infinite.\n     */\n     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n
*/\n     public abstract suspend fun yieldAll(iterator: Iterator<T>)\n\n    /**\n     * Yields a collections of values to
the [Iterator] being built\n     * and suspends until all these values are iterated and the next one is requested.\n
     */\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n     */\n     public suspend fun yieldAll(elements:
Iterable<T>) {\n        if (elements is Collection && elements.isEmpty()) return\n        return
yieldAll(elements.iterator())\n    }\n\n    /**\n     * Yields potentially infinite sequence of values to the [Iterator]
being built\n     * and suspends until all these values are iterated and the next one is requested.\n     */\n     * The
sequence can be potentially infinite.\n     */\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n     */\n     public suspend fun yieldAll(sequence:

```



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Sequence<T> = yieldAll(sequence.iterator())\n\nprivate typealias State = Int\nprivate const val
State_NotReady: State = 0\nprivate const val State_ManyNotReady: State = 1\nprivate const val State_ManyReady:
State = 2\nprivate const val State_Ready: State
= 3\nprivate const val State_Done: State = 4\nprivate const val State_Failed: State = 5\nprivate class
SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {\n    private var state =
State_NotReady\n    private var nextValue: T? = null\n    private var nextIterator: Iterator<T>? = null\n    var
nextStep: Continuation<Unit>? = null\n\n    override fun hasNext(): Boolean {\n        while (true) {\n            when
(state) {\n                State_NotReady -> {}\n                State_ManyNotReady ->\n                    if
(nextIterator!!.hasNext()) {\n                        state = State_ManyReady\n                        return true\n                    }
else {\n                        nextIterator = null\n                    }\n                State_Done -> return false\n                State_Ready, State_ManyReady -> return true\n                else -> throw exceptionalState()\n            }\n            state
= State_Failed\n            val step
= nextStep!!\n            nextStep = null\n            step.resume(Unit)\n        }\n\n        override fun next(): T {\n            when (state) {\n                State_NotReady, State_ManyNotReady -> return nextNotReady()\n                State_ManyReady -> {\n                    state = State_ManyNotReady\n                    return nextIterator!!.next()\n                }\n                State_Ready -> {\n                    state = State_NotReady\n                    @Suppress("UNCHECKED_CAST")\n                    val result = nextValue as T\n                    nextValue = null\n                    return result\n                }\n                else -> throw
exceptionalState()\n            }\n        }\n\n        private fun nextNotReady(): T {\n            if (!hasNext()) throw
NoSuchElementException() else return next()\n        }\n\n        private fun exceptionalState(): Throwable = when (state)
{\n            State_Done -> NoSuchElementException()\n            State_Failed -> IllegalStateException("Iterator has
failed.")\n            else -> IllegalStateException("Unexpected
state of the iterator: $state")\n        }\n\n        override suspend fun yield(value: T) {\n            nextValue = value\n            state = State_Ready\n            return suspendCoroutineUninterceptedOrReturn { c ->\n                nextStep = c\n                COROUTINE_SUSPENDED\n            }\n        }\n\n        override suspend fun yieldAll(iterator: Iterator<T>) {\n            if
(!iterator.hasNext()) return\n            nextIterator = iterator\n            state = State_ManyReady\n            return
suspendCoroutineUninterceptedOrReturn { c ->\n                nextStep = c\n                COROUTINE_SUSPENDED\n            }\n        }\n\n        // Completion continuation implementation\n        override fun resumeWith(result: Result<Unit>) {\n            result.getOrThrow() // just rethrow exception if it is there\n            state = State_Done\n        }\n\n        override val context:
CoroutineContext\n            get() = EmptyCoroutineContext\n    }\n\n    /*\n     * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n     * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n     */\n\n    package kotlin.collections\n\n    internal fun checkWindowSizeStep(size: Int, step: Int) {\n        require(size > 0 &&
step > 0) {\n            if (size != step)\n                "Both size $size and step $step must be greater than zero.\n            else\n                "size $size must be greater than zero.\n        }\n    }\n\n    internal fun <T> Sequence<T>.windowedSequence(size:
Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Sequence<List<T>> {\n        checkWindowSizeStep(size, step)\n        return Sequence { windowedIterator(iterator(), size, step, partialWindows,
reuseBuffer) }\n    }\n\n    internal fun <T> windowedIterator(iterator: Iterator<T>, size: Int, step: Int, partialWindows:
Boolean, reuseBuffer: Boolean): Iterator<List<T>> {\n        if (!iterator.hasNext()) return EmptyIterator\n        return
iterator<List<T>> {\n            val bufferInitialCapacity = size.coerceAtMost(1024)\n            val gap = step - size\n            if (gap >= 0) {\n                var buffer = ArrayList<T>(bufferInitialCapacity)\n                var skip = 0\n                for (e in iterator) {\n                    if (skip > 0) { skip -= 1; continue }\n                    buffer.add(e)\n                    if (buffer.size == size) {\n                        yield(buffer)\n                        if (reuseBuffer) buffer.clear() else buffer =
ArrayList(size)\n                        skip = gap\n                    }\n                    if (buffer.isEmpty()) {\n                        if
(partialWindows || buffer.size == size) yield(buffer)\n                    } else {\n                        var buffer =
RingBuffer<T>(bufferInitialCapacity)\n                        for (e in iterator) {\n                            buffer.add(e)\n                            if
(buffer.isFull()) {\n                                if (buffer.size < size) { buffer = buffer.expanded(maxCapacity = size); continue
}\n                                yield(if (reuseBuffer) buffer else ArrayList(buffer))\n                            }\n                        }\n                    }\n                }\n            }\n        }\n    }\n}

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        buffer.removeFirst(step)\n            }\n            }\n            if (partialWindows) {\n                while
(buffer.size > step) {\n                    yield(if (reuseBuffer) buffer else ArrayList(buffer))\n                }\n            }\n            buffer.removeFirst(step)\n            }\n            if (buffer.isEmpty()) yield(buffer)\n            }\n            }\n        }\n        \n        internal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {\n            private var fromIndex: Int = 0\n            private var _size: Int = 0\n            fun move(fromIndex: Int, toIndex: Int) {\n                checkRangeIndexes(fromIndex, toIndex, list.size)\n                this.fromIndex = fromIndex\n                this._size = toIndex -
fromIndex\n            }\n            override fun get(index: Int): E {\n                checkElementIndex(index, _size)\n                return
list[fromIndex + index]\n            }\n            override val size: Int get() = _size\n        }\n        \n        /**\n         * Provides ring buffer
implementation.\n         *\n         * Buffer overflow
is not allowed so [add] doesn't overwrite tail but raises an exception.\n         */\n        private class RingBuffer<T>(private val
buffer: Array<Any?>, filledSize: Int) : AbstractList<T>(), RandomAccess {\n            init {\n                require(filledSize >= 0)
{\n                    \"ring buffer filled size should not be negative but it is $filledSize\"\n                }\n                require(filledSize <= buffer.size) {\n
                    \"ring buffer filled size: $filledSize cannot be larger than the buffer size: ${buffer.size}\"\n                }\n            }\n            constructor(capacity: Int) : this(arrayOfNulls<Any?>(capacity), 0)\n            private val capacity = buffer.size\n            private var startIndex: Int = 0\n            override var size: Int = filledSize\n            private set\n            override fun get(index:
Int): T {\n                checkElementIndex(index, size)\n                @Suppress(\"UNCHECKED_CAST\")\n                return
buffer[startIndex.forward(index)] as T\n            }\n            fun isFull() = size == capacity\n            override fun iterator():
Iterator<T> = object : AbstractIterator<T>() {\n                private var
count = size\n                private var index = startIndex\n                override fun computeNext() {\n                    if (count == 0) {\n
                        done()\n                    } else {\n                        @Suppress(\"UNCHECKED_CAST\")\n                        setNext(buffer[index]
as T)\n                        index = index.forward(1)\n                        count--\n                    }\n                }\n            }\n            @Suppress(\"UNCHECKED_CAST\")\n            override fun <T> toArray(array: Array<T>): Array<T> {\n                val
result: Array<T?> =\n                    if (array.size < this.size) array.copyOf(this.size) else array as Array<T?>\n                val
size = this.size\n                var widx = 0\n                var idx = startIndex\n                while (widx < size && idx < capacity) {\n
                    result[widx] = buffer[idx] as T\n                    widx++\n                    idx++\n                }\n                idx = 0\n                while (widx <
size) {\n                    result[widx] = buffer[idx] as T\n                    widx++\n                    idx++\n                }\n                if (result.size >
this.size) result[this.size]\n                = null\n                return result as Array<T>\n            }\n            override fun toArray(): Array<Any?> {\n                return
toArray(arrayOfNulls(size))\n            }\n            /**\n             * Creates a new ring buffer with the capacity equal to the minimum
of [maxCapacity] and 1.5 * [capacity].\n             * The returned ring buffer contains the same elements as this ring
buffer.\n             */\n            fun expanded(maxCapacity: Int): RingBuffer<T> {\n                val newCapacity = (capacity + (capacity
shr 1) + 1).coerceAtMost(maxCapacity)\n                val newBuffer = if (startIndex == 0) buffer.copyOf(newCapacity)
else toArray(arrayOfNulls(newCapacity))\n                return RingBuffer(newBuffer, size)\n            }\n            /**\n             * Add
[element] to the buffer or fail with [IllegalStateException] if no free space available in the buffer.\n             */\n            fun
add(element: T) {\n                if (isFull()) {\n                    throw IllegalStateException(\"ring buffer is full\")\n                }\n                buffer[startIndex.forward(size)] = element\n
                size++\n            }\n            /**\n             * Removes [n] first elements from the buffer or fails with
[IllegalArgumentException] if not enough elements in the buffer to remove.\n             */\n            fun removeFirst(n: Int) {\n                require(n >= 0) {\n                    \"n shouldn't be negative but it is $n\"\n                }\n                require(n <= size) {\n                    \"n shouldn't be greater than
the buffer size: n = $n, size = $size\"\n                }\n                if (n > 0) {\n                    val start = startIndex\n                    val end =
start.forward(n)\n                    if (start > end) {\n                        buffer.fill(null, start, capacity)\n                        buffer.fill(null, 0,
end)\n                    } else {\n                        buffer.fill(null, start, end)\n                    }\n                    startIndex = end\n                    size -=
n\n                }\n            }\n            @Suppress(\"NOTHING_TO_INLINE\")\n            private inline fun Int.forward(n: Int): Int =
(this + n) % capacity\n        }\n        \n        /**\n         * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n         * Use of this source
code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n         */\n        \n        package
kotlin.collections\n        \n        // UByteArray
=====

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=====@Exp

```

experimentalUnsignedTypes\nprivate fun partition(\n    array: UByteArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: UByteArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index,
right)\n}\n\n// UShortArray

```

```

===== \n @Exp
experimentalUnsignedTypes\nprivate fun partition(\n    array: UShortArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: UShortArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// UIntArray

```

```

===== \n @Exp
experimentalUnsignedTypes\nprivate
fun partition(\n    array: UIntArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: UIntArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// ULongArray

```

```

===== \n @Exp
experimentalUnsignedTypes\nprivate fun partition(\n    array: ULongArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: ULongArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n\nInterfaces

```

```

===== \n /* \n
* Sorts the given array using qsort algorithm. \n * \n @ExperimentalUnsignedTypes\ninternal fun sortArray(array: UByteArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)\n\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UShortArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)\n\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UIntArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)\n\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: ULongArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)", /* \n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. \n * \n \n package kotlin\n\nimport kotlin.internal.InlineOnly\n\n/* \n * Compares this object with the specified object for order. Returns zero if this object is equal \n * to the specified [other] object, a negative number if it's less than [other], or a positive number \n * if it's greater than [other]. \n * \n * This function delegates to [Comparable.compareTo] and allows to call it in infix form. \n * \n * \n @InlineOnly\n@SinceKotlin("1.6")\npublic inline infix fun <T> Comparable<T>.compareTo(other: T): Int = \n    this.compareTo(other)\n", /* \n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language

```

contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage kotlin.contracts\n\nimport kotlin.internal.ContractsDsl\n\nimport kotlin.internal.InlineOnly\n\n/\*\*\n \* This marker distinguishes the experimental contract declaration API and is used to opt-in for that feature\n \* when declaring contracts of user functions.\n \*/\n \* Any usage of a declaration annotated with `@ExperimentalContracts` must be accepted either by\n \* annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalContracts::class)`,\n \* or by using the compiler argument `--opt-in=kotlin.contracts.ExperimentalContracts`.\n \*/\n\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@RequiresOptIn\n@MustBeDocumented\npublic\n\nannotation class ExperimentalContracts\n\n/\*\*\n \* Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc.,\n \* can be used to describe the contract of a function.\n \*/\n \* This type is used as a receiver type of the lambda function passed to the [contract] function.\n \*/\n \* @see contract\n \*/\n\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin("1.3")\npublic interface ContractBuilder {\n\n /\*\*\n \* Describes a situation when a function returns normally, without any exceptions thrown.\n \*/\n \* Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n \*/\n \* // @sample samples.contracts.returnsContract\n \* @ContractsDsl public fun returns(): Returns\n \*/\n \* Describes a situation when a function returns normally with the specified return [value].\n \*/\n \* The possible values of [value] are limited to `true`, `false` or `null`.\n \*/\n \* // @sample samples.contracts.returnsTrueContract\n \* // @sample samples.contracts.returnsFalseContract\n \* // @sample samples.contracts.returnsNullContract\n \* @ContractsDsl public fun returns(value: Any?): Returns\n \*/\n \* Describes a situation when a function returns normally with any value that is not `null`.\n \*/\n \* Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n \*/\n \* // @sample samples.contracts.returnsNotNullContract\n \* @ContractsDsl public fun returnsNotNull(): ReturnsNotNull\n \*/\n \* Specifies that the function parameter [lambda] is invoked in place.\n \*/\n \* This contract specifies that:\n \* 1. the function [lambda] can only be invoked during the call of the owner function,\n \* and it won't be invoked after that owner function call is completed;\n \* 2. (optionally) the function [lambda] is invoked the amount of times specified by the [kind] parameter,\n \* see the [InvocationKind] enum for possible values.\n \*/\n \* A function declaring the `callsInPlace` effect must be inline.\n \*/\n \* // @sample samples.contracts.callsInPlaceAtMostOnceContract\n \* @sample samples.contracts.callsInPlaceAtLeastOnceContract\n \* @sample samples.contracts.callsInPlaceExactlyOnceContract\n \* @sample samples.contracts.callsInPlaceUnknownContract\n \*/\n \* @ContractsDsl public fun <R> callsInPlace(lambda: Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\n\n /\*\*\n \* Specifies how many times a function invokes its function parameter in place.\n \*/\n \* See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.\n \*/\n\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin("1.3")\npublic enum class InvocationKind {\n\n /\*\*\n \* A function parameter will be invoked one time or not invoked at all.\n \*/\n \* // @sample samples.contracts.callsInPlaceAtMostOnceContract\n \* @ContractsDsl AT\_MOST\_ONCE,\n \*/\n \* A function parameter will be invoked one or more times.\n \*/\n \* // @sample samples.contracts.callsInPlaceAtLeastOnceContract\n \* @ContractsDsl AT\_LEAST\_ONCE,\n \*/\n \* A function parameter will be invoked exactly one time.\n \*/\n \* // @sample samples.contracts.callsInPlaceExactlyOnceContract\n \* @ContractsDsl EXACTLY\_ONCE,\n \*/\n \* A function parameter is called in place, but it's unknown how many times it can be called.\n \*/\n \* // @sample samples.contracts.callsInPlaceUnknownContract\n \* @ContractsDsl UNKNOWN\n\n /\*\*\n \* Specifies the contract of a function.\n \*/\n \* The contract description must be at the beginning of a function and have at least one effect.\n \*/\n \* Only the top-level functions can have a contract for now.\n \*/\n \* @param builder the

```

lambda where the contract of a function is described with the help of the [ContractBuilder] members.\n *\n */\n\n
@sample samples.contracts.returnsContract\n* @sample samples.contracts.returnsTrueContract\n* @sample
samples.contracts.returnsFalseContract\n* @sample samples.contracts.returnsNullContract\n* @sample
samples.contracts.returnsNotNullContract\n* @sample samples.contracts.callsInPlaceAtMostOnceContract\n*
@sample samples.contracts.callsInPlaceAtLeastOnceContract\n* @sample
samples.contracts.callsInPlaceExactlyOnceContract\n* @sample
samples.contracts.callsInPlaceUnknownContract\n*/\n\n@ContractsDsl\n@ExperimentalContracts\n@InlineOnly\n@
SinceKotlin("1.3")\n\n@Suppress("UNUSED_PARAMETER")\n\npublic inline fun contract(builder:
ContractBuilder.() -> Unit) { }\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage
kotlin.coroutines\n\n/**\n * Marks coroutine context element that intercepts coroutine continuations.\n * The
coroutines framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and\n * intercepts all coroutine
continuations with [interceptContinuation] invocations.\n *\n * [ContinuationInterceptor] behaves like a
[polymorphic element][AbstractCoroutineContextKey], meaning that\n * its implementation delegates
[get][CoroutineContext.Element.get] and [minusKey][CoroutineContext.Element.minusKey]\n * to
[getPolymorphicElement] and [minusPolymorphicKey] respectively.\n * [ContinuationInterceptor] subtypes can be
extracted from the coroutine context using either [ContinuationInterceptor.Key]\n * or subtype key if it extends
[AbstractCoroutineContextKey].\n */\n\n@SinceKotlin("1.3")\n\npublic interface ContinuationInterceptor :
CoroutineContext.Element {\n    /**\n     * The key that defines *the* context interceptor.\n     */\n    companion
object Key : CoroutineContext.Key<ContinuationInterceptor>\n\n    /**\n     * Returns continuation that wraps the original [continuation], thus intercepting all resumptions.\n     *
This function is invoked by coroutines framework when needed and the resulting continuations are\n     * cached
internally per each instance of the original [continuation].\n     *\n     * This function may simply return original
[continuation] if it does not want to intercept this particular continuation.\n     *\n     * When the original
[continuation] completes, coroutine framework invokes [releaseInterceptedContinuation]\n     * with the resulting
continuation if it was intercepted, that is if `interceptContinuation` had previously\n     * returned a different
continuation instance.\n     */\n    public fun <T> interceptContinuation(continuation: Continuation<T>):
Continuation<T>\n\n    /**\n     * Invoked for the continuation instance returned by [interceptContinuation] when
the original\n     * continuation completes and will not be
used anymore. This function is invoked only if [interceptContinuation]\n     * had returned a different continuation
instance from the one it was invoked with.\n     *\n     * Default implementation does nothing.\n     */\n    @param
continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.\n     */\n    public fun releaseInterceptedContinuation(continuation: Continuation<*>) {\n        /** do nothing by default */\n    }\n\n    public override operator fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E? {\n        // getPolymorphicKey specialized for ContinuationInterceptor key\n        @OptIn(ExperimentalStdlibApi::class)\n        if (key is AbstractCoroutineContextKey<*, *>) {\n            @Suppress("UNCHECKED_CAST")\n            return
if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n        }\n        @Suppress("UNCHECKED_CAST")\n        return if (ContinuationInterceptor === key) this as E else
null\n    }\n\n    public override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext {\n        //
minusPolymorphicKey specialized for ContinuationInterceptor key\n        @OptIn(ExperimentalStdlibApi::class)\n        if (key is AbstractCoroutineContextKey<*, *>) {\n            return if (key.isSubKey(this.key) && key.tryCast(this)
!= null) EmptyCoroutineContext else this\n        }\n        return if (ContinuationInterceptor === key)
EmptyCoroutineContext else this\n    }\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\n/**\n * Persistent context for the coroutine. It is an
indexed set of [Element] instances.\n * An indexed set is a mix between a set and a map.\n * Every element in this
set has a unique [Key].\n */\n\n@SinceKotlin("1.3")\n\npublic interface CoroutineContext {\n

```

```

/**\n * Returns the element with the given [key] from this context or `null`.\n */\n public operator fun <E :
Element> get(key: Key<E>): E?\n\n /**\n * Accumulates entries of this context starting with [initial] value and
applying [operation]\n * from left to right to current accumulator value and each element of this context.\n */\n
public fun <R> fold(initial: R, operation: (R, Element) -> R): R\n\n /**\n * Returns a context containing
elements from this context and elements from other [context].\n * The elements from this context with the same
key as in the other one are dropped.\n */\n public operator fun plus(context: CoroutineContext):
CoroutineContext =\n    if (context === EmptyCoroutineContext) this else // fast path -- avoid lambda creation\n
context.fold(this) { acc, element ->\n        val removed = acc.minusKey(element.key)\n        if
(removed === EmptyCoroutineContext) element else {\n
            // make sure interceptor is always last in the context (and thus is fast to get when present)\n
val interceptor = removed[ContinuationInterceptor]\n                if (interceptor == null)\n
CombinedContext(removed, element) else {\n                    val left =
removed.minusKey(ContinuationInterceptor)\n                    if (left === EmptyCoroutineContext)\n
CombinedContext(element, interceptor) else\n                        CombinedContext(CombinedContext(left, element),
interceptor)\n                }\n            }\n        }\n\n /**\n * Returns a context containing elements from this
context, but without an element with\n * the specified [key].\n */\n public fun minusKey(key: Key<*>):
CoroutineContext\n\n /**\n * Key for the elements of [CoroutineContext]. [E] is a type of element with this
key.\n */\n public interface Key<E : Element>{\n\n /**\n * An element of the [CoroutineContext].
An element of the coroutine context is a singleton context by itself.\n */\n public interface Element :
CoroutineContext {\n\n /**\n * A key of this coroutine context element.\n */\n public val key:
Key<*>\n\n public override operator fun <E : Element> get(key: Key<E>): E? =\n
@Suppress(\n"UNCHECKED_CAST")\n        if (this.key == key) this as E else null\n\n public override fun
<R> fold(initial: R, operation: (R, Element) -> R): R =\n        operation(initial, this)\n\n public override fun
minusKey(key: Key<*>): CoroutineContext =\n        if (this.key == key) EmptyCoroutineContext else this\n
}\n}\n",\n\n /**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.coroutines\nimport kotlin.coroutines.CoroutineContext.Element\nimport
kotlin.coroutines.CoroutineContext.Key\n\n/**\n * Base class for [CoroutineContext.Element] implementations.\n
*/\n@SinceKotlin(\n"1.3")\npublic abstract class AbstractCoroutineContextElement(public override val key:
Key<*>) : Element\n\n/**\n * Base class for [CoroutineContext.Key] associated with polymorphic
[CoroutineContext.Element] implementation.\n * Polymorphic element implementation implies delegating its
[get][Element.get] and [minusKey][Element.minusKey]\n * to [getPolymorphicElement] and
[minusPolymorphicKey] respectively.\n * Polymorphic elements can be extracted from the coroutine context
using both element key and its supertype key.\n * Example of polymorphic elements:\n * ```\n * open class
BaseElement : CoroutineContext.Element {\n *     companion object Key : CoroutineContext.Key<BaseElement>\n *
override val key: CoroutineContext.Key<*> get() = Key\n *     // It is important to use getPolymorphicKey and
minusPolymorphicKey\n *     override fun <E : CoroutineContext.Element>
get(key: CoroutineContext.Key<E>): E? = getPolymorphicElement(key)\n *     override fun minusKey(key:
CoroutineContext.Key<*>): CoroutineContext = minusPolymorphicKey(key)\n * }\n * class DerivedElement :
BaseElement() {\n *     companion object Key : AbstractCoroutineContextKey<BaseElement,
DerivedElement>(BaseElement, { it as? DerivedElement })\n * }\n * // Now it is possible to query both
`BaseElement` and `DerivedElement`\n * someContext[BaseElement] // Returns BaseElement?, non-null both for
BaseElement and DerivedElement instances\n * someContext[DerivedElement] // Returns DerivedElement?, non-
null only for DerivedElement instance\n * ```\n * @param B base class of a polymorphic element\n * @param
baseKey an instance of base key\n * @param E element type associated with the current key\n * @param safeCast a
function that can safely cast abstract [CoroutineContext.Element] to the concrete [E] type\n * and return
the element if it is a subtype of

```

```

[E] or `null` otherwise.\n *^@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic abstract class
AbstractCoroutineContextKey<B : Element, E : B>(\n    baseKey: Key<B>,\n    private val safeCast: (element:
Element) -> E?)\n) : Key<E> {\n    private val topmostKey: Key<*> = if (baseKey is
AbstractCoroutineContextKey<*, *>) baseKey.topmostKey else baseKey\n\n    internal fun tryCast(element:
Element): E? = safeCast(element)\n    internal fun isSubKey(key: Key<*>): Boolean = key === this || topmostKey
=== key\n}\n\n/**\n * Returns the current element if it is associated with the given [key] in a polymorphic manner
or `null` otherwise.\n * This method returns non-null value if either [Element.key] is equal to the given [key] or if
the [key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See
[AbstractCoroutineContextKey] for the example of usage.\n
*^@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <E : Element>
Element.getPolymorphicElement(key: Key<E>):
E? {\n    if (key is AbstractCoroutineContextKey<*, *>) {\n        @Suppress("UNCHECKED_CAST")\n        return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n    }\n    @Suppress("UNCHECKED_CAST")\n    return if (this.key === key) this as E else null\n}\n\n/**\n * Returns
empty coroutine context if the element is associated with the given [key] in a polymorphic manner\n * or `null`
otherwise.\n * This method returns empty context if either [Element.key] is equal to the given [key] or if the [key] is
associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See [AbstractCoroutineContextKey] for
the example of usage.\n
*^@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun
Element.minusPolymorphicKey(key: Key<*>): CoroutineContext {\n    if (key is AbstractCoroutineContextKey<*,
*>) {\n        return if (key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this\n    }\n    return if (this.key === key) EmptyCoroutineContext
else this\n}\n\n/**\n * An empty coroutine context.\n
*^@SinceKotlin("1.3")\npublic object
EmptyCoroutineContext : CoroutineContext, Serializable {\n    private const val serialVersionUID: Long = 0\n    private fun readResolve(): Any = EmptyCoroutineContext\n\n    public override fun <E : Element> get(key:
Key<E>): E? = null\n    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial\n    public
override fun plus(context: CoroutineContext): CoroutineContext = context\n    public override fun minusKey(key:
Key<*>): CoroutineContext = this\n    public override fun hashCode(): Int = 0\n    public override fun toString():
String = "EmptyCoroutineContext"\n}\n\n//----- internal impl ----- \n\n// this class is not
exposed, but is hidden inside implementations\n// this is a left-biased list, so that `plus` works
naturally\n@SinceKotlin("1.3")\ninternal class CombinedContext(\n    private val left: CoroutineContext,\n    private val element: Element)\n) : CoroutineContext, Serializable {\n    override fun <E : Element> get(key:
Key<E>): E? {\n        var cur = this\n        while (true) {\n            cur.element[key]?.let { return it }\n            val next
= cur.left\n            if (next is CombinedContext) {\n                cur = next\n            } else {\n                return
next[key]\n            }\n        }\n    }\n\n    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\n        operation(left.fold(initial, operation), element)\n\n    public override fun minusKey(key: Key<*>):
CoroutineContext {\n        element[key]?.let { return left }\n        val newLeft = left.minusKey(key)\n        return
when {\n            newLeft === left -> this\n            newLeft === EmptyCoroutineContext -> element\n            else ->
CombinedContext(newLeft, element)\n        }\n    }\n\n    private fun size(): Int {\n        var cur = this\n        var size
= 2\n        while
(true) {\n            cur = cur.left as? CombinedContext ?: return size\n            size++\n        }\n    }\n\n    private fun
contains(element: Element): Boolean =\n        get(element.key) == element\n\n    private fun containsAll(context:
CombinedContext): Boolean {\n        var cur = context\n        while (true) {\n            if (!contains(cur.element))
return false\n            val next = cur.left\n            if (next is CombinedContext) {\n                cur = next\n            } else
{\n                return contains(next as Element)\n            }\n        }\n    }\n\n    override fun equals(other: Any?):
Boolean =\n        this === other || other is CombinedContext && other.size() == size() &&
other.containsAll(this)\n\n    override fun hashCode(): Int = left.hashCode() + element.hashCode()\n\n    override
fun toString(): String =\n        "[" + fold("") { acc, element ->\n            if (acc.isEmpty()) element.toString() else
"$acc, $element"\n        } + "]"
}\n

```

```

private fun writeReplace(): Any {
    val n = size()
    val elements =
    arrayOfNulls<CoroutineContext>(n)
    var index = 0
    fold(Unit) { _, element -> elements[index++] =
    element }
    check(index == n)
    @Suppress("UNCHECKED_CAST")
    return Serialized(elements
    as Array<CoroutineContext>)
}
private class Serialized(val elements: Array<CoroutineContext>) :
Serializable {
    companion object {
        private const val serialVersionUID: Long = 0L
    }
    private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)
}
}
/* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
*/
@file:kotlin.jvm.JvmName("IntrinsicsKt")
@file:kotlin.jvm.JvmMultifileClass
package
kotlin.coroutines.intrinsics
import
kotlin.contracts.*
import kotlin.coroutines.*
import kotlin.internal.InlineOnly
/* Obtains the current
continuation instance inside suspend functions and either suspends
currently running coroutine or returns result
immediately without suspension.
If the [block] returns the special [COROUTINE_SUSPENDED] value, it
means that suspend function did suspend the execution and will
not return any result immediately. In this case,
the [Continuation] provided to the [block] shall be
resumed by invoking [Continuation.resumeWith] at some
moment in the
future when the result becomes available to resume the computation.
Otherwise, the
return value of the [block] must have a type assignable to [T] and represents the result of this suspend function.
It means that the execution was not suspended and the [Continuation] provided to the [block] shall not be invoked.
As the result type of the [block] is declared as `Any?` and cannot be correctly type-checked,
its proper return type remains on the conscience of the suspend function's author.
Invocation of
[Continuation.resumeWith] resumes coroutine directly in the invoker's thread without going through the
[ContinuationInterceptor] that might be present in the coroutine's [CoroutineContext].
It is the invoker's
responsibility to ensure that a proper invocation context is established.
[Continuation.intercepted] can be used to
acquire the intercepted continuation.
Note that it is not recommended to call either [Continuation.resume]
nor [Continuation.resumeWithException] functions synchronously
in the same stackframe where suspension
function is run. Use [suspendCoroutine] as a safer way to obtain current
continuation instance.
*/
@SinceKotlin("1.3")
@InlineOnly
@Suppress("UNUSED_PARAMETER",
"RedundantSuspendModifier")
public suspend inline fun <T>
suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T {
    contract { callsInPlace(block, InvocationKind.EXACTLY_ONCE) }
    throw
    NotImplementedError("Implementation of suspendCoroutineUninterceptedOrReturn is intrinsic")
}
/* This value is used as a return value of [suspendCoroutineUninterceptedOrReturn] `block` argument to state that
the execution was suspended and will not return any result immediately.
Note: this value should not be
used in general code.
Using it outside of the context of `suspendCoroutineUninterceptedOrReturn` function
return value (including, but not limited to,
storing this value in other properties, returning it from other
functions, etc)
can lead to unspecified behavior of the code.
*/
// It is implemented as property with getter to
avoid ProGuard <clinit> problem with multifile IntrinsicsKt class
@SinceKotlin("1.3")
public val
COROUTINE_SUSPENDED: Any get() = CoroutineSingletons.COROUTINE_SUSPENDED
// Using enum
here ensures two important properties:
1. It makes
SafeContinuation serializable with all kinds of serialization frameworks (since all of them natively support
enums)
2. It improves debugging experience, since you clearly see toString() value of those objects and what
package they come from
@SinceKotlin("1.3")
@PublishedApi // This class is Published API via serialized
representation of SafeContinuation, don't rename/move
internal enum class CoroutineSingletons {
    COROUTINE_SUSPENDED, UNDECIDED, RESUMED
}
/* Copyright 2010-2022 JetBrains s.r.o. and
Kotlin Programming Language contributors.
Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.
*/
@file:Suppress("EXPECT_AND_ACTUAL_IN_THE_SAME_MODULE") // for building kotlin-stdlib-jvm-
minimal-for-test
package kotlin.enums
/* A specialized immutable implementation of [List] interface

```



that `EnumEntries` contains all enum entries of the specified enum type `E`. `EnumEntries` contains all enum entries in the order they are declared in the source code, consistently with the corresponding `Enum.ordinal` values.

An instance of this interface can only be obtained from `EnumClass.entries` property.

Implementation note: All basic operations, such as `contains` and `indexOf`, are executed in constant time and are likely to be faster than regular `ArrayList<E>` counterparts.

```

* \n @SinceKotlin("1.9") \n @WasExperimental(ExperimentalStdlibApi::class) \n public sealed interface
EnumEntries<E : Enum<E>> : List<E> \n @PublishedApi \n @SinceKotlin("1.8") // Used by pre-1.9.0 JVM
compiler for the feature in preview mode. Can be safely removed around 2.1 \n internal fun <E : Enum<E>>
enumEntries(entriesProvider: () -> Array<E>): EnumEntries<E> =
EnumEntriesList(entriesProvider()) \n @PublishedApi \n @SinceKotlin("1.8") \n internal fun <E : Enum<E>>
enumEntries(entries: Array<E>): EnumEntries<E> = EnumEntriesList(entries) \n @SinceKotlin("1.8") \n private
class EnumEntriesList<T
: Enum<T>>(private val entries: Array<T>) : EnumEntries<T>, AbstractList<T>(), Serializable { \n // WA for JS IR
bug: \n // class type parameter name MUST be different from E (AbstractList<E> type parameter), \n // otherwise the
bridge names for contains() and indexOf() will be clashed with the original method names, \n // and produced JS
code will not contain type checks and will not work correctly. \n \n override val size: Int \n get() =
entries.size \n \n override fun get(index: Int): T { \n checkElementIndex(index, entries.size) \n return
entries[index] \n } \n // By definition, EnumEntries contains **all** enums in declaration order, \n // thus we
are able to short-circuit the implementation here \n \n override fun contains(element: T): Boolean { \n
@Suppress("SENSELESS_COMPARISON") \n if (element === null) return false // WA for JS IR bug \n //
Check identity due to UnsafeVariance \n val target = entries.getOrNull(element.ordinal) \n
return target === element \n } \n \n override fun indexOf(element: T): Int { \n
@Suppress("SENSELESS_COMPARISON") \n if (element === null) return -1 // WA for JS IR bug \n //
Check identity due to UnsafeVariance \n val ordinal = element.ordinal \n val target =
entries.getOrNull(ordinal) \n return if (target === element) ordinal else -1 \n } \n \n override fun
lastIndexOf(element: T): Int = indexOf(element) \n \n @Suppress("unused") \n private fun writeReplace(): Any
{ \n // Used for Java serialization: EESP ensures that deserialized object **always** reflects the state of the
enum on the target classpath \n return EnumEntriesSerializationProxy(entries) \n } \n } \n \n internal expect class
EnumEntriesSerializationProxy<E : Enum<E>>(entries: Array<E>) \n } \n * Copyright 2010-2022 JetBrains s.r.o.
and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file. \n * \n \n package kotlin.experimental \n \n /** \n * This annotation
marks the experimental [ObjCName][kotlin.native.ObjCName] annotation. \n
* \n @RequiresOptIn \n @Target(AnnotationTarget.ANNOTATION_CLASS) \n @Retention(AnnotationRetention.BI
NARY) \n @MustBeDocumented \n @SinceKotlin("1.8") \n public annotation class ExperimentalObjCName \n } \n *
Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. \n * \n \n package
kotlin.experimental \n \n /** \n * This annotation marks the experimental Objective-C export refinement annotations. \n
* \n @RequiresOptIn \n @Target(AnnotationTarget.ANNOTATION_CLASS) \n @Retention(AnnotationRetention.BI
NARY) \n @MustBeDocumented \n @SinceKotlin("1.8") \n public annotation class
ExperimentalObjCRefinement \n } \n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors. \n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. \n
* \n \n package kotlin.experimental \n \n /** \n * Performs a bitwise AND operation between the two values. \n
* \n @SinceKotlin("1.1") \n @kotlin.internal.InlineOnly \n public inline infix fun Byte.and(other: Byte): Byte =
(this.toInt() and other.toInt()).toByte() \n \n /** \n * Performs a bitwise OR operation between the two values. \n
* \n @SinceKotlin("1.1") \n @kotlin.internal.InlineOnly \n public inline infix fun Byte.or(other: Byte): Byte =
(this.toInt() or other.toInt()).toByte() \n \n /** \n * Performs a bitwise XOR operation between the two values. \n
* \n @SinceKotlin("1.1") \n @kotlin.internal.InlineOnly \n public inline infix fun Byte.xor(other: Byte): Byte =

```

(this.toInt() xor other.toInt()).toByte()\n\n\*\* Inverts the bits in this value.

\*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.inv(): Byte =

(this.toInt().inv()).toByte()\n\n\*\* Performs a bitwise AND operation between the two values. \*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.and(other: Short): Short = (this.toInt() and other.toInt()).toShort()\n\n\*\* Performs a bitwise OR operation between the two values. \*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.or(other: Short): Short = (this.toInt() or other.toInt()).toShort()\n\n\*\* Performs a bitwise XOR operation between the two values. \*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.xor(other: Short): Short = (this.toInt() xor other.toInt()).toShort()\n\n\*\* Inverts the bits in this value.

\*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun Short.inv(): Short =

(this.toInt().inv()).toShort()\n\n", "/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt

file.\n \*\n@package kotlin.experimental\n\n\*\*\n \* The experimental marker for type inference augmenting annotations.\n \*\n \* Any usage of a declaration annotated with `@ExperimentalTypeInference` must be accepted either by\n \* annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalTypeInference::class)`,\n \* or by using the compiler argument `-opt-in=kotlin.experimental.ExperimentalTypeInference`.\n \*\n@RequiresOptIn(level = RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.ANNOTATION\_CLASS)\n@SinceKotlin("1.3")\npublic annotation class ExperimentalTypeInference\n", "/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*\n@package kotlin.internal\n\n\*\*\n \* Specifies that the corresponding type should be ignored during type inference.\n \*\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class NoInfer\n\n\*\*\n \* Specifies that the constraint built for the type during type inference should be an equality one.\n \*\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class Exact\n\n\*\*\n \* Specifies that a corresponding member has the lowest priority in overload resolution.\n \*\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class LowPriorityInOverloadResolution\n\n\*\*\n \* Specifies that the corresponding member has the highest priority in overload resolution. Effectively this means that\n \* an extension annotated with this annotation will win in overload resolution over a member with the same signature.\n \*\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class HidesMembers\n\n\*\*\n \* The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type).\n \*\n@Target(AnnotationTarget.TYPE\_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class OnlyInputTypes\n\n\*\*\n \* Specifies that this function should not be called directly without inlining\n \*\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.PROPERTY\_GETTER, AnnotationTarget.PROPERTY\_SETTER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class InlineOnly\n\n\*\*\n \* Specifies that this declaration can have dynamic receiver type.\n \*\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class DynamicExtension\n\n\*\*\n \* The value of this parameter should be a property reference expression (`this::foo`), referencing a `lateinit` property,\n \* the backing field of which is accessible at the point where the corresponding argument is passed.\n \*\n@Target(AnnotationTarget.VALUE\_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\n@SinceK

```

@since("1.2")\ninternal annotation class AccessibleLateinitPropertyLiteral\n\n/**\n * Specifies that this declaration is only completely supported since the specified version.\n * The Kotlin compiler of an earlier version is going to report a diagnostic on usages of this declaration.\n * The diagnostic message can be specified with [message], or via [errorCode] (takes less space, but might not be immediately clear\n * to the user). The diagnostic severity can be specified with [level]: WARNING/ERROR mean that either a warning or an error\n * is going to be reported, HIDDEN means that the declaration is going to be removed from resolution completely.\n * [versionKind] specifies which version should be compared with the [version] value, when compiling the usage of the annotated declaration.\n * Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE_VERSION] was supported, so the Kotlin compiler before 1.2 is going to\n * treat any [RequireKotlin] as if it requires the language version. Since 1.2, the Kotlin compiler supports\n * [RequireKotlinVersionKind.LANGUAGE_VERSION], [RequireKotlinVersionKind.COMPILER_VERSION] and [RequireKotlinVersionKind.API_VERSION].\n * If the actual value of [versionKind] is something different (e.g. a new version kind, added in future versions of Kotlin),\n * Kotlin 1.2 is going to ignore this [RequireKotlin] altogether, where as Kotlin before 1.2 is going to treat this as a requirement\n * on the language version.\n *\n * This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata.\n */\n@Target(AnnotationTarget.CLASS, AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR, AnnotationTarget.TYPEALIAS)\n@Retention(AnnotationRetention.SOURCE)\n@Repeatable\n@SinceKotlin("1.2")\ninternal annotation class RequireKotlin(\n    val version: String,\n    val message: String = "",\n    val level: DeprecationLevel = DeprecationLevel.ERROR,\n    val versionKind: RequireKotlinVersionKind = RequireKotlinVersionKind.LANGUAGE_VERSION,\n    val errorCode: Int = -1)\n\n/**\n * The kind of the version that is required by [RequireKotlin].\n */\n@SinceKotlin("1.2")\ninternal enum class RequireKotlinVersionKind {\n    LANGUAGE_VERSION,\n    COMPILER_VERSION,\n    API_VERSION,\n}\n\n/**\n * Specifies that this declaration is a part of special DSL, used for constructing function's contract.\n */\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.2")\ninternal annotation class ContractsDsl\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n// a mod b (in arithmetical sense)\nprivate fun mod(a: Int, b: Int): Int {\n    val mod = a % b\n    return if (mod >= 0) mod else mod + b\n}\n\nprivate fun mod(a: Long, b: Long): Long {\n    val mod = a % b\n    return if (mod >= 0) mod else mod + b\n}\n\n// (a - b) mod c\nprivate fun differenceModulo(a: Int, b: Int, c: Int): Int {\n    return mod(mod(a, c) - mod(b, c), c)\n}\n\nprivate fun differenceModulo(a: Long, b: Long, c: Long): Long {\n    return mod(mod(a, c) - mod(b, c), c)\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n */\n@suppress\n@PublishedApi\ninternal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\n    else -> throw kotlin.IllegalArgumentException("Step is zero.")\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end ending bound

```

for the progression\n \* @param step increment, or difference of successive elements in the progression\n \* @return the final element of the progression\n \* @suppress\n \* \n @PublishedApi\n internal fun  
getProgressionLastElement(start: Long, end: Long, step: Long): Long = when {\n step > 0 -> if (start >= end) end  
else end - differenceModulo(end, start, step)\n step < 0 -> if (start <= end) end else end + differenceModulo(start,  
end, -step)\n else -> throw kotlin.IllegalArgumentException("Step is zero.")\n }\n }"/\*\n \* Copyright 2010-2022  
JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the  
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \* \n\n package kotlin.io.encoding\n\n import  
kotlin.native.concurrent.SharedImmutable\n\n // Benchmarks repository:  
<https://github.com/qurbonzoda/KotlinBase64Benchmarks>\n\n /\*\*\n \* Provides Base64 encoding and decoding  
functionality.\n \* \n \* This class is not supposed  
to be instantiated or inherited.\n \* However, predefined instances of this class are available for use.\n \* The  
companion object [Base64.Default] is the default instance of [Base64].\n \* There are also [Base64.UrlSafe] and  
[Base64.Mime] instances.\n \* \n @SinceKotlin("1.8")\n @ExperimentalEncodingApi\n public open class Base64  
private constructor(\n internal val isUrlSafe: Boolean,\n internal val isMimeType: Boolean\n ) {\n init {\n  
require(!isUrlSafe || !isMimeType)\n }\n\n /\*\*\n \* Encodes bytes from the specified [source] array or its  
subrange.\n \* Returns a [ByteArray] containing the resulting symbols.\n \* \n \* If the size of the [source] array  
or its subrange is not an integral multiple of 3,\n \* the result is padded with '=' to an integral multiple of 4  
symbols.\n \* \n \* Each resulting symbol occupies one byte in the returned byte array.\n \* \n \* Use [encode]  
to get the output in string form.\n \* \n \* @param source  
the array to encode bytes from.\n \* @param startIndex the beginning (inclusive) of the subrange to encode, 0 by  
default.\n \* @param endIndex the end (exclusive) of the subrange to encode, size of the [source] array by  
default.\n \* \n \* @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of  
[source] array indices.\n \* @throws IllegalArgumentException when `startIndex > endIndex`.\n \* \n \*  
@return a [ByteArray] with the resulting symbols.\n \* \n public fun encodeToByteArray(source: ByteArray,  
startIndex: Int = 0, endIndex: Int = source.size): ByteArray {\n return platformEncodeToByteArray(source,  
startIndex, endIndex)\n }\n\n /\*\*\n \* Encodes bytes from the specified [source] array or its subrange and  
writes resulting symbols into the [destination] array.\n \* Returns the number of symbols written.\n \* \n \* If  
the size of the [source] array or its subrange is not an integral multiple of 3,\n \*  
the result is padded with '=' to an integral multiple of 4 symbols.\n \* \n \* @param source the array to encode  
bytes from.\n \* @param destination the array to write symbols into.\n \* @param destinationOffset the starting  
index in the [destination] array to write symbols to, 0 by default.\n \* @param startIndex the beginning (inclusive)  
of the subrange to encode, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to encode, size  
of the [source] array by default.\n \* \n \* @throws IndexOutOfBoundsException when [startIndex] or  
[endIndex] is out of range of [source] array indices.\n \* @throws IllegalArgumentException when `startIndex >  
endIndex`.\n \* @throws IndexOutOfBoundsException when the resulting symbols don't fit into the [destination]  
array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices  
range.\n \* \n \* @return the number of symbols written into [destination]  
array.\n \* \n public fun encodeIntoByteArray(\n source: ByteArray,\n destination: ByteArray,\n  
destinationOffset: Int = 0,\n startIndex: Int = 0,\n endIndex: Int = source.size\n ): Int {\n return  
platformEncodeIntoByteArray(source, destination, destinationOffset, startIndex, endIndex)\n }\n\n /\*\*\n \*  
Encodes bytes from the specified [source] array or its subrange.\n \* Returns a string with the resulting symbols.\n \*  
\*\n \* If the size of the [source] array or its subrange is not an integral multiple of 3,\n \* the result is padded  
with '=' to an integral multiple of 4 symbols.\n \* \n \* Use [encodeToByteArray] to get the output in  
[ByteArray] form.\n \* \n \* @param source the array to encode bytes from.\n \* @param startIndex the  
beginning (inclusive) of the subrange to encode, 0 by default.\n \* @param endIndex the end (exclusive) of the  
subrange to encode, size of the [source] array  
by default.\n \* \n \* @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of  
[source] array indices.\n \* @throws IllegalArgumentException when `startIndex > endIndex`.\n \* \n \*

```

@return a string with the resulting symbols.\n    */\n    public fun encode(source: ByteArray, startIndex: Int = 0,
endIndex: Int = source.size): String {\n        return platformEncodeToString(source, startIndex, endIndex)\n    }\n\n/**\n * Encodes bytes from the specified [source] array or its subrange and appends resulting symbols to the
[destination] appendable.\n * Returns the destination appendable.\n */\n * If the size of the [source] array or
its subrange is not an integral multiple of 3,\n * the result is padded with '=' to an integral multiple of 4
symbols.\n */\n * @param source the array to encode bytes from.\n * @param destination the appendable to
append symbols to.\n * @param startIndex the beginning (inclusive)
of the subrange to encode, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to encode, size
of the [source] array by default.\n */\n * @throws IndexOutOfBoundsException when [startIndex] or
[endIndex] is out of range of [source] array indices.\n * @throws IllegalArgumentException when `startIndex >
endIndex`.\n */\n * @return the destination appendable.\n */\n    public fun <A : Appendable>
encodeToAppendable(\n        source: ByteArray,\n        destination: A,\n        startIndex: Int = 0,\n        endIndex: Int
= source.size\n    ): A {\n        val stringResult = platformEncodeToString(source, startIndex, endIndex)\n
destination.append(stringResult)\n        return destination\n    }\n\n/**\n * Decodes symbols from the specified
[source] array or its subrange.\n * Returns a [ByteArray] containing the resulting bytes.\n */\n * The symbols
for decoding are not required to be padded.\n * However, if there
is a padding character present, the correct amount of padding character(s) must be present.\n * The padding
character '=' is interpreted as the end of the encoded byte data. Subsequent symbols are prohibited.\n */\n *
@param source the array to decode symbols from.\n * @param startIndex the beginning (inclusive) of the
subrange to decode, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to decode, size of the
[source] array by default.\n */\n * @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out
of range of [source] array indices.\n * @throws IllegalArgumentException when `startIndex > endIndex`.\n *
@throws IllegalArgumentException when the symbols for decoding are padded incorrectly or there are extra
symbols after the padding.\n */\n * @return a [ByteArray] with the resulting bytes.\n */\n    public fun
decode(source: ByteArray, startIndex: Int = 0, endIndex: Int = source.size): ByteArray {\n
        checkSourceBounds(source.size, startIndex, endIndex)\n        val decodeSize = decodeSize(source, startIndex,
endIndex)\n        val destination = ByteArray(decodeSize)\n        val bytesWritten = decodeImpl(source,
destination, 0, startIndex, endIndex)\n        check(bytesWritten == destination.size)\n        return destination\n
}\n\n/**\n * Decodes symbols from the specified [source] array or its subrange and writes resulting bytes into
the [destination] array.\n * Returns the number of bytes written.\n */\n * The symbols for decoding are not
required to be padded.\n * However, if there is a padding character present, the correct amount of padding
character(s) must be present.\n * The padding character '=' is interpreted as the end of the encoded byte data.
Subsequent symbols are prohibited.\n */\n * @param source the array to decode symbols from.\n * @param
destination the array to write bytes into.\n * @param destinationOffset
the starting index in the [destination] array to write bytes to, 0 by default.\n * @param startIndex the beginning
(inclusive) of the subrange to decode, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to
decode, size of the [source] array by default.\n */\n * @throws IndexOutOfBoundsException when [startIndex]
or [endIndex] is out of range of [source] array indices.\n * @throws IllegalArgumentException when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the resulting bytes don't fit into the [destination]
array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices
range.\n * @throws IllegalArgumentException when the symbols for decoding are padded incorrectly or there are
extra symbols after the padding.\n */\n * @return the number of bytes written into [destination] array.\n */\n
    public fun decodeIntoByteArray(\n        source: ByteArray,\n
        destination: ByteArray,\n        destinationOffset: Int = 0,\n        startIndex: Int = 0,\n        endIndex: Int =
source.size\n    ): Int {\n        checkSourceBounds(source.size, startIndex, endIndex)\n
        checkDestinationBounds(destination.size, destinationOffset, decodeSize(source, startIndex, endIndex))\n
        return decodeImpl(source, destination, destinationOffset, startIndex, endIndex)\n    }\n\n/**\n * Decodes
symbols from the specified [source] char sequence or its substring.\n * Returns a [ByteArray] containing the

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resulting bytes.\n
 * The symbols for decoding are not required to be padded.\n
 * However, if there is a padding character present, the correct amount of padding character(s) must be present.\n
 * The padding character '=' is interpreted as the end of the encoded byte data. Subsequent symbols are prohibited.\n
 * @param source the char sequence to decode symbols from.\n
 * @param startIndex the beginning (inclusive) of the substring to decode, 0 by default.\n
 * @param endIndex the end (exclusive) of the substring to decode, length of the [source] by default.\n
 * @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of [source] indices.\n
 * @throws IllegalArgumentException when `startIndex > endIndex`.\n
 * @throws IllegalArgumentException when the symbols for decoding are padded incorrectly or there are extra symbols after the padding.\n
 * @return a [ByteArray] with the resulting bytes.\n
 */\n
public fun decode(source: CharSequence, startIndex: Int = 0, endIndex: Int = source.length): ByteArray {\n
    val byteSource = platformCharsToBytes(source, startIndex, endIndex)\n
    return decode(byteSource)\n
}\n
/**\n
 * Decodes symbols from the specified [source] char sequence or its substring and writes resulting bytes into the [destination] array.\n
 * Returns the number of bytes written.\n
 * The symbols for decoding are not required to be padded.\n
 * However, if there is a padding character present, the correct amount of padding character(s) must be present.\n
 * The padding character '=' is interpreted as the end of the encoded byte data. Subsequent symbols are prohibited.\n
 * @param source the char sequence to decode symbols from.\n
 * @param destination the array to write bytes into.\n
 * @param destinationOffset the starting index in the [destination] array to write bytes to, 0 by default.\n
 * @param startIndex the beginning (inclusive) of the substring to decode, 0 by default.\n
 * @param endIndex the end (exclusive) of the substring to decode, length of the [source] by default.\n
 * @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of [source] indices.\n
 * @throws IllegalArgumentException when `startIndex > endIndex`.\n
 * @throws IndexOutOfBoundsException when the resulting bytes don't fit into the [destination] array starting at the specified [destinationOffset],\n
 * or when that index is out of the [destination] array indices range.\n
 * @throws IllegalArgumentException when the symbols for decoding are padded incorrectly or there are extra symbols after the padding.\n
 * @return the number of bytes written into [destination] array.\n
 */\n
public fun decodeIntoByteArray(\n
    source: CharSequence,\n
    destination: ByteArray,\n
    destinationOffset: Int = 0,\n
    startIndex: Int = 0,\n
    endIndex: Int = source.length\n
): Int {\n
    val byteSource = platformCharsToBytes(source, startIndex, endIndex)\n
    return decodeIntoByteArray(byteSource, destination, destinationOffset)\n
}\n
// internal functions\n
internal fun encodeToByteArrayImpl(source: ByteArray, startIndex: Int, endIndex: Int): ByteArray {\n
    checkSourceBounds(source.size, startIndex, endIndex)\n
    val encodeSize = encodeSize(endIndex - startIndex)\n
    val destination = ByteArray(encodeSize)\n
    encodeIntoByteArrayImpl(source, destination, 0, startIndex, endIndex)\n
    return destination\n
}\n
internal fun encodeIntoByteArrayImpl(\n
    source: ByteArray,\n
    destination: ByteArray,\n
    destinationOffset: Int,\n
    startIndex: Int,\n
    endIndex: Int\n
): Int {\n
    checkSourceBounds(source.size, startIndex, endIndex)\n
    checkDestinationBounds(destination.size, destinationOffset, encodeSize(endIndex - startIndex))\n
    val encodeMap = if (isUrlSafe) base64UrlEncodeMap else base64EncodeMap\n
    var sourceIndex = startIndex\n
    var destinationIndex = destinationOffset\n
    val groupsPerLine = if (isMimeScheme) mimeGroupsPerLine else Int.MAX_VALUE\n
    while (sourceIndex + 2 < endIndex) {\n
        val groups = minOf((endIndex - sourceIndex) / bytesPerGroup, groupsPerLine)\n
        for (i in 0 until groups) {\n
            val byte1 = source[sourceIndex++].toInt() and 0xFF\n
            val byte2 = source[sourceIndex++].toInt() and 0xFF\n
            val bits = (byte1 shl 16) or (byte2 shl 8) or byte3\n
            destination[destinationIndex++] = encodeMap[bits ushr 18]\n
            destination[destinationIndex++] = encodeMap[(bits ushr 12) and 0x3F]\n
            destination[destinationIndex++] = encodeMap[(bits ushr 6) and 0x3F]\n
            destination[destinationIndex++] = encodeMap[bits and 0x3F]\n
        }\n
        if (groups == groupsPerLine && sourceIndex != endIndex) {\n
            destination[destinationIndex++] = mimeLineSeparatorSymbols[0]\n
            destination[destinationIndex++] =

```

```

mimeLineSeparatorSymbols[1]\n        }\n        }\n        when (endIndex - sourceIndex) {\n            1 -> {\n                val byte1 = source[sourceIndex++].toInt() and 0xFF\n                val bits = byte1 shl 4\n                destination[destinationIndex++] = encodeMap[bits ushr 6]\n            }\n            destination[destinationIndex++] = encodeMap[bits and 0x3F]\n            destination[destinationIndex++] =\n            padSymbol\n            destination[destinationIndex++] = padSymbol\n            }\n            2 -> {\n                val byte1\n                = source[sourceIndex++].toInt() and 0xFF\n                val byte2 = source[sourceIndex++].toInt() and 0xFF\n                val bits = (byte1 shl 10) or (byte2 shl 2)\n                destination[destinationIndex++] = encodeMap[bits ushr 12]\n                destination[destinationIndex++] = encodeMap[(bits ushr 6) and 0x3F]\n            }\n            destination[destinationIndex++] = encodeMap[bits and 0x3F]\n            destination[destinationIndex++] =\n            padSymbol\n            }\n            }\n            check(sourceIndex == endIndex)\n            return destinationIndex -\n            destinationOffset\n        }\n        private fun encodeSize(sourceSize:\n        Int): Int {\n            // includes padding chars\n            val groups = (sourceSize + bytesPerGroup - 1) / bytesPerGroup\n            val lineSeparators = if (isMimeScheme) (groups - 1) / mimeGroupsPerLine else 0\n            val size = groups * symbolsPerGroup + lineSeparators * 2\n            if (size < 0) { // Int overflow\n                throw\n                IllegalArgumentException("Input is too big")\n            }\n            return size\n        }\n        private fun decodeImpl(\n        source: ByteArray,\n        destination: ByteArray,\n        destinationOffset: Int,\n        startIndex: Int,\n        endIndex:\n        Int\n        ): Int {\n            val decodeMap = if (isUrlSafe) base64UrlDecodeMap else base64DecodeMap\n            var\n            payload = 0\n            var byteStart = -bitsPerByte\n            var sourceIndex = startIndex\n            var destinationIndex =\n            destinationOffset\n            while (sourceIndex < endIndex) {\n                if (byteStart == -bitsPerByte && sourceIndex\n                + 3 < endIndex) {\n                    val symbol1\n                    = decodeMap[source[sourceIndex++].toInt() and 0xFF]\n                    val symbol2 =\n                    decodeMap[source[sourceIndex++].toInt() and 0xFF]\n                    val symbol3 =\n                    decodeMap[source[sourceIndex++].toInt() and 0xFF]\n                    val symbol4 =\n                    decodeMap[source[sourceIndex++].toInt() and 0xFF]\n                    val bits = (symbol1 shl 18) or (symbol2 shl 12) or\n                    (symbol3 shl 6) or symbol4\n                    if (bits >= 0) { // all base64 symbols\n                        destination[destinationIndex++] = (bits shr\n                        8).toByte()\n                        destination[destinationIndex++] = (bits shr\n                        8).toByte()\n                        destination[destinationIndex++] = bits.toByte()\n                        continue\n                    }\n                    val symbol = source[sourceIndex].toInt() and 0xFF\n                    val\n                    symbolBits = decodeMap[symbol]\n                    if (symbolBits < 0) {\n                        if (symbolBits == -2) {\n                            sourceIndex = handlePaddingSymbol(source,\n                            sourceIndex, endIndex, byteStart)\n                            break\n                        } else if (isMimeScheme) {\n                            sourceIndex += 1\n                            continue\n                        } else {\n                            throw\n                            IllegalArgumentException("Invalid symbol '${symbol.toChar()}'('${symbol.toString(radix = 8)}) at index\n                            $sourceIndex")\n                        }\n                    } else {\n                        sourceIndex += 1\n                    }\n                    payload = (payload\n                    shl bitsPerSymbol) or symbolBits\n                    byteStart += bitsPerSymbol\n                    if (byteStart >= 0) {\n                        destination[destinationIndex++] = (payload ushr byteStart).toByte()\n                        payload = payload and ((1 shl\n                        byteStart) - 1)\n                        byteStart -= bitsPerByte\n                    }\n                    }\n                    }\n                    // pad or end of input\n                    if\n                    (byteStart == -bitsPerByte + bitsPerSymbol) { // dangling single symbol, incorrectly encoded\n                        throw\n                        IllegalArgumentException("The\n                        last unit of input does not have enough bits")\n                    }\n                    }\n                    // check(payload == 0) // the padded bits are allowed\n                    to be non-zero\n                    sourceIndex = skipIllegalSymbolsIfMime(source, sourceIndex, endIndex)\n                    if\n                    (sourceIndex < endIndex) {\n                        val symbol = source[sourceIndex].toInt() and 0xFF\n                        throw\n                        IllegalArgumentException("Symbol '${symbol.toChar()}'('${symbol.toString(radix = 8)}) at index\n                        ${sourceIndex -\n                        1} is prohibited after the pad character")\n                    }\n                    }\n                    return destinationIndex - destinationOffset\n                }\n            }\n            private fun decodeSize(source: ByteArray, startIndex: Int, endIndex: Int): Int {\n                var symbols = endIndex -\n                startIndex\n                if (symbols == 0) {\n                    return 0\n                }\n                if (symbols == 1) {\n                    throw\n                    IllegalArgumentException("Input should have at list 2 symbols for Base64 decoding, startIndex: $startIndex,\n                    endIndex: $endIndex")\n                }\n                if (isMimeScheme) {\n
```

```

    for (index in startIndex until endIndex) {\n
        val symbol = source[index].toInt() and 0xFF\n
        val symbolBits = base64DecodeMap[symbol]\n
        if (symbolBits < 0) {\n
            if (symbolBits == -2) {\n
                symbols -= endIndex - index\n
                break\n
            }\n
            symbols--\n
        }\n
    } else if (source[endIndex - 1] == padSymbol) {\n
        symbols--\n
        if (source[endIndex - 2] == padSymbol) {\n
            symbols--\n
        }\n
    } return ((symbols.toLong() * bitsPerSymbol) / bitsPerByte).toInt() // conversion due to possible Int overflow\n
}

internal fun charsToBytesImpl(source: CharSequence, startIndex: Int, endIndex: Int): ByteArray {\n
    checkSourceBounds(source.length, startIndex, endIndex)\n
    val byteArray = ByteArray(endIndex - startIndex)\n
    var length = 0\n
    for (index in startIndex until endIndex) {\n
        val symbol = source[index].code\n
        if (symbol <= 0xFF) {\n
            byteArray[length++] = symbol.toByte()\n
        } else {\n
            // the replacement byte must be an illegal symbol\n
            // so that mime skips it and basic throws with correct index\n
            byteArray[length++] = 0x3F\n
        }\n
    }\n
    return byteArray\n
}

internal fun bytesToStringImpl(source: ByteArray): String {\n
    val stringBuilder = StringBuilder(source.size)\n
    for (byte in source) {\n
        stringBuilder.append(byte.toInt().toChar())\n
    }\n
    return stringBuilder.toString()\n
}

private fun handlePaddingSymbol(source: ByteArray, padIndex: Int, endIndex: Int, byteStart: Int): Int {\n
    return when (byteStart) {\n
        -bitsPerByte -> // =\n
            throw IllegalArgumentException("Redundant pad character at index $padIndex")\n
        -bitsPerByte + bitsPerSymbol -> // x=, dangling single symbol\n
            padIndex + 1\n
        -bitsPerByte + 2 * bitsPerSymbol - bitsPerByte -> { // xx=\n
            val secondPadIndex = skipIllegalSymbolsIfMime(source, padIndex + 1, endIndex)\n
            if (secondPadIndex == endIndex || source[secondPadIndex] != padSymbol) {\n
                throw IllegalArgumentException("Missing one pad character at index $secondPadIndex")\n
            }\n
            secondPadIndex + 1\n
        }\n
        -bitsPerByte + 3 * bitsPerSymbol - 2 * bitsPerByte -> // xxx=\n
            padIndex + 1\n
        else ->\n
            error("Unreachable")\n
    }\n
}

private fun skipIllegalSymbolsIfMime(source: ByteArray, startIndex: Int, endIndex: Int): Int {\n
    if (!isMimeScheme) {\n
        return startIndex\n
    }\n
    var sourceIndex = startIndex\n
    while (sourceIndex < endIndex) {\n
        val symbol = source[sourceIndex].toInt() and 0xFF\n
        if (base64DecodeMap[symbol] != -1) {\n
            return sourceIndex\n
        }\n
        sourceIndex += 1\n
    }\n
    return sourceIndex\n
}

internal fun checkSourceBounds(sourceSize: Int, startIndex: Int, endIndex: Int) {\n
    AbstractList.checkBoundsIndexes(startIndex, endIndex, sourceSize)\n
}

private fun checkDestinationBounds(destinationSize: Int, destinationOffset: Int, capacityNeeded: Int) {\n
    if (destinationOffset < 0 || destinationOffset > destinationSize) {\n
        throw IndexOutOfBoundsException("destination offset: $destinationOffset, destination size: $destinationSize")\n
    }\n
    val destinationEndIndex = destinationOffset + capacityNeeded\n
    if (destinationEndIndex < 0 || destinationEndIndex > destinationSize) {\n
        throw IndexOutOfBoundsException("The destination array does not have enough capacity, " +\n
            "\ndestination offset: $destinationOffset, destination size: $destinationSize, capacity needed: $capacityNeeded")\n
    }\n
}

// companion object\n
/**\n
 * The "base64" encoding specified by [RFC 4648 section 4](https://www.rfc-editor.org/rfc/rfc4648#section-4),\n
 * Base 64 Encoding.\n
 * Uses "The Base 64 Alphabet" as specified in Table 1 of RFC 4648 for encoding and decoding.\n
 * Encode operation does not add any line separator character.\n
 * Decode operation throws if it encounters a character outside the base64 alphabet.\n
 * The character '=' is used for padding.\n
 */\n
public companion object Default {\n
    Base64(isUrlSafe = false, isMimeScheme = false) {\n
        private const val bitsPerByte: Int = 8\n
        private const val bitsPerSymbol: Int = 6\n
        internal const val bytesPerGroup: Int = 3\n
        internal const val symbolsPerGroup: Int = 4\n
        internal const val padSymbol: Byte = 61 // '='\n
        internal const val mimeLineLength: Int = 76\n
        private const val mimeGroupsPerLine: Int = mimeLineLength / symbolsPerGroup\n
        internal val mimeLineSeparatorSymbols: ByteArray =\n
            byteArrayOf('\r'.code.toByte(), '\n'.code.toByte())\n
        /**\n
         * The "base64url" encoding specified by [RFC 4648 section 5](https://www.rfc-editor.org/rfc/rfc4648#section-5),\n
         * Base 64 Encoding with URL and

```



```

Filename Safe Alphabet.\n      *\n      * Uses \"The URL and Filename safe Base 64 Alphabet\" as specified in
Table 2 of RFC 4648 for encoding and decoding.\n      * Encode operation does not add any line separator
character.\n      * Decode operation throws if it encounters a character outside the base64url alphabet.\n      *\n
* The character '=' is used for padding.\n      */\n      public val UriSafe: Base64 = Base64(isUriSafe = true,
isMimeType = false)\n      /**\n      * The encoding specified
by [RFC 2045 section 6.8](https://www.rfc-editor.org/rfc/rfc2045#section-6.8),\n      * Base64 Content-
Transfer-Encoding.\n      *\n      * Uses \"The Base64 Alphabet\" as specified in Table 1 of RFC 2045 for
encoding and decoding.\n      * Encode operation adds CRLF every 76 symbols. No line separator is added to the
end of the encoded output.\n      * Decode operation ignores all line separators and other characters outside the
base64 alphabet.\n      *\n      * The character '=' is used for padding.\n      */\n      public val Mime: Base64
= Base64(isUriSafe = false, isMimeType = true)\n    }\n}\n\n//
\"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/\n\n@SharedImmutable\nprivate val base64EncodeMap = arrayOf(\n    65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79,
80, /* 0 - 15 */\n    81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 97, 98, 99, 100, 101, 102, /* 16 - 31 */\n    103,
104, 105, 106,
107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, /* 32 - 47 */\n    119, 120, 121, 122, 48, 49, 50, 51,
52, 53, 54, 55, 56, 57, 43, 47, /* 48 - 63 */\n)\n\n@ExperimentalEncodingApi\n@SharedImmutable\nprivate
val base64DecodeMap = IntArray(256).apply {\n    this.fill(-1)\n    this[Base64.padSymbol.toInt()] = -2\n
base64EncodeMap.forEachIndexed { index, symbol ->\n    this[symbol.toInt()] = index\n    }\n}\n\n//
\"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-
_/\n\n@SharedImmutable\nprivate val base64UrlEncodeMap = arrayOf(\n    65, 66, 67, 68, 69, 70, 71, 72,
73, 74, 75, 76, 77, 78, 79, 80, /* 0 - 15 */\n    81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 97, 98, 99, 100, 101,
102, /* 16 - 31 */\n    103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, /* 32 - 47 */\n
119, 120, 121, 122, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 45, 95, /* 48 - 63
*/\n)\n\n@ExperimentalEncodingApi\n@SharedImmutable\nprivate
val base64UrlDecodeMap = IntArray(256).apply {\n    this.fill(-1)\n    this[Base64.padSymbol.toInt()] = -2\n
base64UrlEncodeMap.forEachIndexed { index, symbol ->\n    this[symbol.toInt()] = index\n
}\n}\n\n\n@SinceKotlin(\"1.8\")\n@ExperimentalEncodingApi\ninternal fun isInMimeAlphabet(symbol: Int):
Boolean {\n    return symbol in base64DecodeMap.indices && base64DecodeMap[symbol] != -
1\n}\n\n\n@SinceKotlin(\"1.8\")\n@ExperimentalEncodingApi\ninternal expect fun
Base64.platformCharsToBytes(\n    source: CharSequence,\n    startIndex: Int,\n    endIndex: Int\n):
ByteArray\n\n\n@SinceKotlin(\"1.8\")\n@ExperimentalEncodingApi\ninternal expect fun
Base64.platformEncodeToString(\n    source: ByteArray,\n    startIndex: Int,\n    endIndex: Int\n):
String\n\n\n@SinceKotlin(\"1.8\")\n@ExperimentalEncodingApi\ninternal expect fun
Base64.platformEncodeIntoByteArray(\n    source: ByteArray,\n    destination: ByteArray,\n    destinationOffset:
Int,\n    startIndex:
Int,\n    endIndex: Int\n): Int\n\n\n@SinceKotlin(\"1.8\")\n@ExperimentalEncodingApi\ninternal expect fun
Base64.platformEncodeToByteArray(\n    source: ByteArray,\n    startIndex: Int,\n    endIndex: Int\n):
ByteArray\", \"*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.io.encoding\nimport kotlin.annotation.AnnotationTarget.*\n/**\n * This annotation marks
the experimental API for encoding and decoding between binary data and printable ASCII character sequences.\n
*\n * > Beware using the annotated API especially if you're developing a library, since your library might become
binary incompatible\n * with the future versions of the standard library.\n * Any usage of a declaration annotated
with `@ExperimentalEncodingApi` must be accepted either by\n * annotating that usage with the [OptIn]
annotation,
e.g. `@OptIn(ExperimentalEncodingApi::class)`,\n * or by using the compiler argument `-opt-
in=kotlin.io.encoding.ExperimentalEncodingApi`.\n */\n@RequiresOptIn(level =

```

```

RequiresOptIn.Level.ERROR)\n@Retention(AnnotationRetention.BINARY)\n@Target(\n CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n PROPERTY_SETTER,\n TYPEALIAS)\n\n@MustBeDocumented\n@SinceKotlin("1.8")\npublic annotation class
ExperimentalEncodingApi", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Standard
property delegates.\n */\npublic object Delegates {\n    /**\n     * Returns a property delegate for a read/write
property with a non-`null` value that is initialized
not during\n     * object construction time but at a later time. Trying to read the property before the initial value has
been\n     * assigned results in an exception.\n     *\n     * @sample samples.properties.Delegates.notNullDelegate\n
*/\n    public fun <T : Any> notNull(): ReadWriteProperty<Any?, T> = NotNullVar()\n    /**\n     * Returns a
property delegate for a read/write property that calls a specified callback function when changed.\n     * @param
initialValue the initial value of the property.\n     * @param onChange the callback which is called after the change
of the property is made. The value of the property\n     * has already been changed when this callback is invoked.\n
*/\n     * @sample samples.properties.Delegates.observableDelegate\n     */\n    public inline fun <T>
observable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Unit):\n
        ReadWriteProperty<Any?, T> =\n        object : ObservableProperty<T>(initialValue)
{\n            override fun afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property,
oldValue, newValue)\n        }\n    /**\n     * Returns a property delegate for a read/write property that calls a
specified callback function when changed,\n     * allowing the callback to veto the modification.\n     * @param
initialValue the initial value of the property.\n     * @param onChange the callback which is called before a change
to the property value is attempted.\n     * The value of the property hasn't been changed yet, when this callback is
invoked.\n     * If the callback returns `true` the value of the property is being set to the new value,\n     * and if
the callback returns `false` the new value is discarded and the property remains its old value.\n     *\n     * @sample
samples.properties.Delegates.vetoableDelegate\n     * @sample
samples.properties.Delegates.throwVetoableDelegate\n     */\n    public inline fun <T> vetoable(initialValue:
T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean):\n
        ReadWriteProperty<Any?, T> =\n        object : ObservableProperty<T>(initialValue) {\n            override fun
beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = onChange(property, oldValue,
newValue)\n        }\n\nprivate class NotNullVar<T : Any>(): ReadWriteProperty<Any?, T> {\n    private var
value: T? = null\n    public override fun getValue(thisRef: Any?, property: KProperty<*>): T {\n        return value
?: throw IllegalStateException("Property ${property.name} should be initialized before get.")\n    }\n    public
override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {\n        this.value = value\n    }\n    public
override fun toString(): String =\n        "NotNullProperty(${if (value != null) "value=$value" else "value
not initialized yet"})\n    }\n\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport
kotlin.reflect.KProperty\n\n/**\n * Base interface that can be used for implementing property delegates of read-only
properties.\n * This is provided only for convenience; you don't have to extend this interface\n * as long as your
property delegate has methods with the same signatures.\n * This\n * @param T the type of object which owns the
delegated property.\n * @param V the type of the property value.\n */\npublic fun interface ReadOnlyProperty<in
T, out V> {\n    /**\n     * Returns the value of the property for the given object.\n     * @param thisRef the object
for which the value is requested.\n     * @param property the metadata for the property.\n     * @return the property
value.\n     */\n    public operator fun getValue(thisRef: T, property: KProperty<*>): V\n}\n\n/**\n *
Base interface that can be used for implementing property delegates of read-write properties.\n * This is
provided only for convenience; you don't have to extend this interface\n * as long as your property delegate has
methods with the same signatures.\n * This\n * @param T the type of object which owns the delegated property.\n *

```

```

@param V the type of the property value.
public interface ReadWriteProperty<in T, V> :
    ReadOnlyProperty<T, V> {
        /**
         * Returns the value of the property for the given object.
         * @param thisRef the object for which the value is requested.
         * @param property the metadata for the property.
         * @return the property value.
         */
        public override operator fun getValue(thisRef: T, property: KProperty<*>):
            V
        /**
         * Sets the value of the property for the given object.
         * @param thisRef the object for which the
         * value is requested.
         * @param property the metadata for the property.
         * @param value the value to
         * set.
         */
        public operator fun setValue(thisRef: T, property: KProperty<*>, value: V)
    }
}

/**
 * Base
 * interface that can be used for implementing property delegate providers.
 * This is provided only for
 * convenience; you don't have to extend this interface
 * as long as your delegate provider has a method with the
 * same signature.
 * @param T the type of object which owns the delegated property.
 * @param D the type of
 * property delegates this provider provides.
 */
@SinceKotlin("1.4")
public fun interface
PropertyDelegateProvider<in T, out D> {
    /**
     * Returns the delegate of the property for the given object.
     * This function can be used to extend the logic of creating the object (e.g. perform validation checks)
     * to
     * which the property implementation is delegated.
     * @param thisRef the object for which property delegate
     * is requested.
     * @param property the metadata for the property.
     * @return the property
     * delegate.
     */
    public operator fun provideDelegate(thisRef: T, property: KProperty<*>): D
}

/**
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is
 * governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package
kotlin.properties
import kotlin.reflect.KProperty
/**
 * Implements the core logic of a property delegate for a
 * read/write property that calls callback functions when changed.
 * @param initialValue the initial value of the
 * property.
 */
public abstract class ObservableProperty<V>(initialValue: V) : ReadWriteProperty<Any?, V> {
    private var value = initialValue
    /**
     * The callback which is called before a change to the property value
     * is attempted.
     * The value of the property hasn't been changed yet, when this callback is invoked.
     * If the
     * callback returns `true` the value of the property is being set to the new value,
     * and if the callback returns `false` the new value is discarded and the property remains its old value.
     */
    protected open fun beforeChange(property: KProperty<*>, oldValue: V, newValue: V): Boolean = true
    /**
     * The callback which is called after the change of the property is made. The value of the property
     * has already
     * been changed when this callback is invoked.
     */
    protected open fun afterChange(property: KProperty<*>,
oldValue: V, newValue: V): Unit {}
    public override fun getValue(thisRef: Any?, property: KProperty<*>): V
    {
        return value
    }
    public override fun setValue(thisRef: Any?, property: KProperty<*>, value: V) {
        val oldValue = this.value
        if (!beforeChange(property, oldValue, value)) {
            return
        }
        this.value = value
        afterChange(property, oldValue, value)
    }
    override fun toString(): String =
        "ObservableProperty(value=$value)"
}

/**
 * Copyright
 * 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed
 * by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:Suppress("PackageDirectoryMismatch")
package kotlin
import kotlin.reflect.*
/**
 * An
 * extension operator that allows delegating a read-only property of type [V]
 * to a property reference to a property
 * of type [V] or its subtype.
 * @receiver A property reference to a read-only or mutable property of type [V] or
 * its subtype.
 * The reference is without a receiver, i.e. it either references a top-level property or
 * has the
 * receiver bound to it.
 * Example:
 * ```
 * class Login(val username: String) {
 *     val defaultLogin =
 *     Login("Admin")
 *     val defaultUsername by defaultLogin::username
 *     // equivalent to
 *     val defaultUserName
 *     get() = defaultLogin.username
 * }
 * ```
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline
operator
fun <V> KProperty0<V>.getValue(thisRef: Any?, property: KProperty<*>): V {
    return get()
}

/**
 * An
 * extension operator that allows delegating a mutable property of type [V]
 * to a property reference to a mutable
 * property of the same type [V].
 * @receiver A property reference to a mutable property of type [V].
 * The
 * reference is without a receiver, i.e. it either references a top-level property or
 * has the receiver bound to it.
 * Example:
 * ```
 * class Login(val username: String, var incorrectAttemptCounter: Int = 0) {
 *     val
 */

```

```

defaultLogin = Login("Admin")\n * var defaultLoginAttempts by defaultLogin::incorrectAttemptCounter\n * //
equivalent to\n * var defaultLoginAttempts: Int\n *     get() = defaultLogin.incorrectAttemptCounter\n *
set(value) { defaultLogin.incorrectAttemptCounter = value }\n * ```\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V>
KMutableProperty0<V>.setValue(thisRef: Any?, property: KProperty<*>,
value: V) {\n    set(value)\n}\n\n/**\n * An extension operator that allows delegating a read-only member or
extension property of type [V]\n * to a property reference to a member or extension property of type [V] or its
subtype.\n * @receiver A property reference to a read-only or mutable property of type [V] or its subtype.\n *
The reference has an unbound receiver of type [T].\n * Example:\n * ```\n * class Login(val username:
String)\n * val Login.user by Login::username\n * // equivalent to\n * val Login.user get() = this.username\n * ```\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, V> KProperty1<T,
V>.getValue(thisRef: T, property: KProperty<*>): V {\n    return get(thisRef)\n}\n\n/**\n * An extension operator
that allows delegating a mutable member or extension property of type [V]\n * to a property reference to a member
or extension mutable property of the same type [V].\n * @receiver A property reference
to a read-only or mutable property of type [V] or its subtype.\n * The reference has an unbound receiver of type
[T].\n * Example:\n * ```\n * class Login(val username: String, var incorrectAttemptCounter: Int)\n * var
Login.attempts by Login::incorrectAttemptCounter\n * // equivalent to\n * var Login.attempts: Int\n *     get() =
this.incorrectAttemptCounter\n *     set(value) { this.incorrectAttemptCounter = value }\n * ```\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, V> KMutableProperty1<T,
V>.setValue(thisRef: T, property: KProperty<*>, value: V) {\n    set(thisRef, value)\n}\n\n"/>\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport
kotlin.math.nextDown\n\n/**\n * An abstract class that is implemented by random number generator algorithms.\n
*\n
* The companion object [Random.Default] is the default instance of [Random].\n * To get a seeded instance of
random generator use [Random] function.\n * @sample samples.random.Randoms.defaultRandom\n
*\n@SinceKotlin("1.3")\npublic abstract class Random {\n\n    /**\n     * Gets the next random [bitCount] number
of bits.\n     * Generates an `Int` whose lower [bitCount] bits are filled with random values and the remaining
upper bits are zero.\n     * @param bitCount number of bits to generate, must be in range 0..32, otherwise the
behavior is unspecified.\n     * @sample samples.random.Randoms.nextBits\n     */\n    public abstract fun
nextBits(bitCount: Int): Int\n\n    /**\n     * Gets the next random `Int` from the random number generator.\n     *
Generates an `Int` random value uniformly distributed between `Int.MIN_VALUE` and `Int.MAX_VALUE`
(inclusive).\n     * @sample samples.random.Randoms.nextInt\n     */\n    public open fun
nextInt(): Int = nextBits(32)\n\n    /**\n     * Gets the next random non-negative `Int` from the random number
generator less than the specified [until] bound.\n     * Generates an `Int` random value uniformly distributed
between `0` (inclusive) and the specified [until] bound (exclusive).\n     * @param until must be positive.\n
*\n     * @throws IllegalArgumentException if [until] is negative or zero.\n     * @sample
samples.random.Randoms.nextIntFromUntil\n     */\n    public open fun nextInt(until: Int): Int = nextInt(0, until)\n\n
/**\n     * Gets the next random `Int` from the random number generator in the specified range.\n     *
Generates an `Int` random value uniformly distributed between the specified [from] (inclusive) and [until]
(exclusive) bounds.\n     * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n
*\n     * @sample samples.random.Randoms.nextIntFromUntil\n     */\n    public open
fun nextInt(from: Int, until: Int): Int {\n        checkRangeBounds(from, until)\n        val n = until - from\n        if (n >
0 || n == Int.MIN_VALUE) {\n            val rnd = if (n and -n == n) {\n                val bitCount = fastLog2(n)\n
                nextBits(bitCount)\n            } else {\n                var v: Int\n                do {\n                    val bits = nextInt().ushr(1)\n
                    v = bits % n\n                } while (bits - v + (n - 1) < 0)\n                v\n            }\n            return from +
rnd\n        } else {\n            while (true) {\n                val rnd = nextInt()\n                if (rnd in from until until) return
rnd\n            }\n        }\n    }\n\n    /**\n     * Gets the next random `Long` from the random number generator.\n

```

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*\n * Generates a `Long` random value uniformly distributed between `Long.MIN_VALUE` and
`Long.MAX_VALUE` (inclusive).\n *\n * @sample samples.random.Randoms.nextLong\n */\n
public open fun nextLong(): Long = nextInt().toLong().shl(32) + nextInt()\n\n /**\n * Gets the next random
non-negative `Long` from the random number generator less than the specified [until] bound.\n *\n * Generates
a `Long` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n
*\n * @param until must be positive.\n *\n * @throws IllegalArgumentException if [until] is negative or
zero.\n *\n * @sample samples.random.Randoms.nextLongFromUntil\n */\n public open fun
nextLong(until: Long): Long = nextLong(0, until)\n\n /**\n * Gets the next random `Long` from the random
number generator in the specified range.\n *\n * Generates a `Long` random value uniformly distributed
between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws
IllegalArgumentException if [from] is greater than or equal to [until].\n *\n * @sample
samples.random.Randoms.nextLongFromUntil\n
*/\n public open fun nextLong(from: Long, until: Long): Long {\n    checkRangeBounds(from, until)\n
val n = until - from\n    if (n > 0) {\n        val rnd: Long\n        if (n and -n == n) {\n            val nLow =
n.toInt()\n            val nHigh = (n ushr 32).toInt()\n            rnd = when {\n                nLow != 0 -> {\n
                    val bitCount = fastLog2(nLow)\n                    // toUInt().toLong()\n
                    nextBits(bitCount).toLong() and 0xFFFF_FFFF\n                    }\n                nHigh == 1 ->{\n
                    //
                    toUInt().toLong()\n                    nextInt().toLong() and 0xFFFF_FFFF\n                    else -> {\n
                    val
                    bitCount = fastLog2(nHigh)\n                    nextBits(bitCount).toLong().shl(32) + (nextInt().toLong() and
                    0xFFFF_FFFF)\n                    }\n                }\n            } else {\n
                var v: Long\n                do {\n                    val bits = nextLong().ushr(1)\n                    v = bits % n\n                }
                while (bits - v + (n - 1) < 0)\n                rnd = v\n            }\n            return from + rnd\n        } else {\n            while
            (true) {\n                val rnd = nextLong()\n                if (rnd in from until until) return rnd\n            }\n        }\n    }\n\n
/**\n * Gets the next random [Boolean] value.\n *\n * @sample samples.random.Randoms.nextBoolean\n
*/\n public open fun nextBoolean(): Boolean = nextBits(1) != 0\n\n /**\n * Gets the next random [Double]
value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n *\n * @sample
samples.random.Randoms.nextDouble\n */\n public open fun nextDouble(): Double =
doubleFromParts(nextBits(26), nextBits(27))\n\n /**\n * Gets the next random non-negative `Double` from the
random number generator less than the specified
[until] bound.\n *\n * Generates a `Double` random value uniformly distributed between 0 (inclusive) and
[until] (exclusive).\n *\n * @throws IllegalArgumentException if [until] is negative or zero.\n *\n *
@sample samples.random.Randoms.nextDoubleFromUntil\n */\n public open fun nextDouble(until: Double):
Double = nextDouble(0.0, until)\n\n /**\n * Gets the next random `Double` from the random number generator
in the specified range.\n *\n * Generates a `Double` random value uniformly distributed between the specified
[from] (inclusive) and [until] (exclusive) bounds.\n *\n * [from] and [until] must be finite otherwise the
behavior is unspecified.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to
[until].\n *\n * @sample samples.random.Randoms.nextDoubleFromUntil\n */\n public open fun
nextDouble(from: Double, until: Double): Double {\n    checkRangeBounds(from, until)\n
val size = until - from\n    val r = if (size.isInfinite() && from.isFinite() && until.isFinite()) {\n        val r1 =
nextInt().toLong()\n        nextDouble() * (until / 2 - from / 2)\n        from + r1 + r1\n    } else {\n        from + nextDouble() * size\n
    }\n    return if (r >= until) until.nextDown() else r\n}\n\n /**\n * Gets the next random [Float] value
uniformly distributed between 0 (inclusive) and 1 (exclusive).\n *\n * @sample
samples.random.Randoms.nextFloat\n */\n public open fun nextFloat(): Float = nextBits(24) / (1 shl
24).toFloat()\n\n /**\n * Fills a subrange of the specified byte [array] starting from [fromIndex] inclusive and
ending [toIndex] exclusive\n * with random bytes.\n *\n * @return [array] with the subrange filled with
random bytes.\n *\n * @sample samples.random.Randoms.nextBytes\n */\n public open fun
nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {\n

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require(fromIndex in 0..array.size && toIndex in 0..array.size) { \"fromIndex ($fromIndex) or toIndex
($toIndex) are out of range: 0..${array.size}.\" }
require(fromIndex <= toIndex) { \"fromIndex ($fromIndex)
must be not greater than toIndex ($toIndex).\" }
val steps = (toIndex - fromIndex) / 4
var position =
fromIndex
repeat(steps) {
val v = nextInt()
array[position] = v.toByte()
array[position + 1] = v.ushr(8).toByte()
array[position + 2] = v.ushr(16).toByte()
array[position +
3] = v.ushr(24).toByte()
position += 4
}
val remainder = toIndex - position
val vr =
nextBits(remainder * 8)
for (i in 0 until remainder) {
array[position + i] = vr.ushr(i * 8).toByte()
}
return array
}
/**
 * Fills the specified byte [array] with random bytes and returns it.
 *
 * @return
 * [array] filled with random bytes.
 *
 * @sample samples.random.Randoms.nextBytes
 */
public open
fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)
/**
 * Creates a byte array of
the specified [size], filled with random bytes.
 *
 * @sample samples.random.Randoms.nextBytes
 */
public open fun nextBytes(size: Int): ByteArray = nextBytes(ByteArray(size))
/**
 * The default random
number generator.
 *
 * On JVM this generator is thread-safe, its methods can be invoked from multiple
threads.
 *
 * @sample samples.random.Randoms.defaultRandom
 */
companion object Default :
Random(), Serializable {
private val defaultRandom: Random = defaultPlatformRandom()
private
object Serialized : Serializable {
private const val serialVersionUID = 0L
private fun
readResolve(): Any = Random
}
private fun writeReplace():
Any = Serialized
override fun nextBits(bitCount: Int): Int = defaultRandom.nextBits(bitCount)
override fun nextInt(): Int = defaultRandom.nextInt()
override fun nextInt(until: Int): Int =
defaultRandom.nextInt(until)
override fun nextInt(from: Int, until: Int): Int = defaultRandom.nextInt(from,
until)
override fun nextLong(): Long = defaultRandom.nextLong()
override fun nextLong(until:
Long): Long = defaultRandom.nextLong(until)
override fun nextLong(from: Long, until: Long): Long =
defaultRandom.nextLong(from, until)
override fun nextBoolean(): Boolean =
defaultRandom.nextBoolean()
override fun nextDouble(): Double = defaultRandom.nextDouble()
override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)
override fun
nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)
override fun
nextFloat(): Float = defaultRandom.nextFloat()

override fun nextBytes(array: ByteArray): ByteArray = defaultRandom.nextBytes(array)
override fun
nextBytes(size: Int): ByteArray = defaultRandom.nextBytes(size)
override fun nextBytes(array: ByteArray,
fromIndex: Int, toIndex: Int): ByteArray =
defaultRandom.nextBytes(array, fromIndex, toIndex)
}
/**
 * Returns a repeatable random number generator seeded with the given [seed] `Int` value.
 *
 * Two
generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.
 *
 * **Note:** Future versions of Kotlin may change the algorithm of this seeded number generator so that it will
return
 * a sequence of values different from the current one for a given seed.
 *
 * On JVM the returned
generator is NOT thread-safe. Do not invoke it from multiple threads without proper synchronization.
 *
 * @sample samples.random.Randoms.seededRandom
 */
@SinceKotlin(\"1.3\")
public fun
Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31))
/**
 * Returns a repeatable random
number generator seeded with the given [seed] `Long` value.
 *
 * Two
generators with the same seed produce the
same sequence of values within the same version of Kotlin runtime.
 *
 * **Note:** Future versions of Kotlin may
change the algorithm of this seeded number generator so that it will return
 * a sequence of values different from
the current one for a given seed.
 *
 * On JVM the returned generator is NOT thread-safe. Do not invoke it from
multiple threads without proper synchronization.
 *
 * @sample samples.random.Randoms.seededRandom
 */
@SinceKotlin(\"1.3\")
public fun Random(seed: Long): Random = XorWowRandom(seed.toInt(),
seed.shr(32).toInt())
/**
 * Gets the next random `Int` from the random number generator in the specified
[range].
 *
 * Generates an `Int` random value uniformly distributed in the specified [range]:
 *
 * from `range.start`
inclusive to

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`range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n
*\n @SinceKotlin("1.3")\n public fun Random.nextInt(range: IntRange): Int = when {\n   range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n   range.last < Int.MAX_VALUE ->
nextInt(range.first, range.last + 1)\n   range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1\n
else -> nextInt()\n }\n\n/**\n * Gets the next random `Long` from the random number generator in the specified
[range].\n *\n * Generates a `Long` random value uniformly distributed in the specified [range]:\n * from
`range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is
empty.\n *\n @SinceKotlin("1.3")\n public fun Random.nextLong(range: LongRange): Long = when {\n
range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")\n   range.last <
Long.MAX_VALUE ->
nextLong(range.first, range.last + 1)\n   range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last) +
1\n   else -> nextLong()\n }\n\n\ninternal expect fun defaultPlatformRandom(): Random\ninternal expect fun
doubleFromParts(hi26: Int, low27: Int): Double\n\ninternal fun fastLog2(value: Int): Int = 31 -
value.countLeadingZeroBits()\n\n/**\n * Takes upper [bitCount] bits (0..32) from this number. *\n\ninternal fun
Int.takeUpperBits(bitCount: Int): Int =\n   this.ushr(32 - bitCount) and (-bitCount).shr(31)\n\n\ninternal fun
checkRangeBounds(from: Int, until: Int) = require(until > from) { boundsErrorMessage(from, until) }\n\ninternal fun
checkRangeBounds(from: Long, until: Long) = require(until > from) { boundsErrorMessage(from, until) }\n\ninternal
fun checkRangeBounds(from: Double, until: Double) = require(until > from) { boundsErrorMessage(from, until)
}\n\n\ninternal fun boundsErrorMessage(from: Any, until: Any) = "Random range is empty: [$from,
$until)."\n", "/*\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin.random\n\n/**\n *
Gets the next random [UInt] from the random number generator.\n *\n * Generates a [UInt] random value uniformly
distributed between [UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).\n
*\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public fun
Random.nextInt(): UInt = nextInt().toUInt()\n\n\n/**\n * Gets the next random [UInt] from the random number
generator less than the specified [until] bound.\n *\n * Generates a [UInt] random value uniformly distributed
between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if
[until] is zero.\n *\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public fun
Random.nextInt(until: UInt): UInt = nextUInt(0u, until)\n\n\n/**\n * Gets the next random [UInt] from the random
number generator in the specified range.\n *\n * Generates a [UInt]
random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n *
@throws IllegalArgumentException if [from] is greater than or equal to [until].\n
*\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public fun
Random.nextInt(from: UInt, until: UInt): UInt {\n   checkUIntRangeBounds(from, until)\n\n   val signedFrom =
from.toInt() xor Int.MIN_VALUE\n   val signedUntil = until.toInt() xor Int.MIN_VALUE\n\n   val signedResult =
nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE\n   return signedResult.toUInt()\n }\n\n\n/**\n * Gets the next
random [UInt] from the random number generator in the specified [range].\n *\n * Generates a [UInt] random value
uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n
*\n * @throws IllegalArgumentException
if [range] is empty.\n *\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public
fun Random.nextInt(range: UIntRange): UInt = when {\n   range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n   range.last < UInt.MAX_VALUE ->
nextInt(range.first, range.last + 1u)\n   range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) +
1u\n   else -> nextUInt()\n }\n\n\n/**\n * Gets the next random [ULong] from the random number generator.\n *\n
* Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and
[ULong.MAX_VALUE] (inclusive).\n
*\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public fun

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Random.nextULong(): ULong = nextLong().toULong()\n\n/**\n * Gets the next random [ULong] from the random
number generator less than the specified [until] bound.\n *\n * Generates a [ULong] random value uniformly
distributed between `0` (inclusive)
and the specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if [until] is zero.\n
*\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public fun
Random.nextULong(until: ULong): ULong = nextULong(0uL, until)\n\n/**\n * Gets the next random [ULong] from
the random number generator in the specified range.\n *\n * Generates a [ULong] random value uniformly
distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws
IllegalArgumentException if [from] is greater than or equal to [until].\n
*\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public fun
Random.nextULong(from: ULong, until: ULong): ULong {\n    checkULongRangeBounds(from, until)\n\n    val
signedFrom = from.toLong() xor Long.MIN_VALUE\n    val signedUntil = until.toLong() xor
Long.MIN_VALUE\n\n    val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\n
return signedResult.toULong()\n}\n\n/**\n
* Gets the next random [ULong] from the random number generator in the specified [range].\n *\n * Generates a
[ULong] random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to
`range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n
*\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public fun
Random.nextULong(range: ULongRange): ULong = when {\n    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last < ULong.MAX_VALUE -
> nextULong(range.first, range.last + 1u)\n    range.first > ULong.MIN_VALUE -> nextULong(range.first - 1u,
range.last) + 1u\n    else -> nextULong()\n}\n\n/**\n * Fills the specified unsigned byte [array] with random bytes
and returns it.\n *\n * @return [array] filled with random bytes.\n
*\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public fun Random.nextUBytes(array: UByteArray):
UByteArray
{\n    nextBytes(array.asByteArray())\n    return array\n}\n\n/**\n * Creates an unsigned byte array of the specified
[size], filled with random bytes.\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public fun
Random.nextUBytes(size: Int): UByteArray = nextBytes(size).asUByteArray()\n\n/**\n * Fills a subrange of the
specified `UByte` [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive with random
UBytes.\n *\n * @return [array] with the subrange filled with random bytes.\n
*\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public fun Random.nextUBytes(array: UByteArray,
fromIndex: Int = 0, toIndex: Int = array.size): UByteArray {\n    nextBytes(array.asByteArray(), fromIndex,
toIndex)\n    return array\n}\n\n\ninternal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until >
from) { boundsErrorMessage(from, until) }\ninternal fun checkULongRangeBounds(from: ULong, until: ULong) =
require(until > from) { boundsErrorMessage(from, until)
}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n @npackage kotlin.random\n\n/**\n * Random number generator, using Marsaglia's "xorwow" algorithm\n *\n *
Cycles after 2^192 - 2^32 repetitions.\n *\n * For more details, see Marsaglia, George (July 2003). "Xorshift
RNGs". Journal of Statistical Software. 8 (14). doi:10.18637/jss.v008.i14\n *\n * Available at
https://www.jstatsoft.org/v08/i14/paper\n *\n *\n internal class XorWowRandom internal constructor(\n    private
var x: Int,\n    private var y: Int,\n    private var z: Int,\n    private var w: Int,\n    private var v: Int,\n    private var
addend: Int\n) : Random(), Serializable {\n    internal constructor(seed1: Int, seed2: Int) : \n        this(seed1,
seed2, 0, 0, seed1.inv(), (seed1 shl 10) xor (seed2 ushr 4))\n\n    init {\n        require((x or y or
z or w or v) != 0) { "Initial state must have at least one non-zero element." }\n\n        // some trivial seeds can
produce several values with zeroes in upper bits, so we discard first 64\n        repeat(64) { nextInt() }\n    }\n\n
override fun nextInt(): Int {\n        // Equivalent to the xorwow algorithm\n        // From Marsaglia, G. 2003. Xorshift
RNGs. J. Statis. Soft. 8, 14, p. 5\n        var t = x\n        t = t xor (t ushr 2)\n        x = y\n        y = z\n        z = w\n

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val v0 = v\n    w = v0\n    t = (t xor (t shl 1)) xor v0 xor (v0 shl 4)\n    v = t\n    addend += 362437\nreturn t + addend\n }\n\n override fun nextBits(bitCount: Int): Int =\n    nextInt().takeUpperBits(bitCount)\n\n private companion object {\n    private const val serialVersionUID: Long = 0L\n }\n}\n", /*\n * Copyright
2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n *\n// Auto-generated file. DO NOT
EDIT!\n\npackage kotlin.ranges\n\n/**\n * An iterator over a progression of values of type `Char`.\n * @property
step the number by which the value is incremented on each step.\n */\ninternal class CharProgressionIterator(first:
Char, last: Char, val step: Int) : CharIterator() {\n    private val finalElement: Int = last.code\n    private var hasNext:
Boolean = if (step > 0) first <= last else first >= last\n    private var next: Int = if (hasNext) first.code else
finalElement\n\n    override fun hasNext(): Boolean = hasNext\n\n    override fun nextChar(): Char {\n        val value
= next\n        if (value == finalElement) {\n            if (!hasNext) throw kotlin.NoSuchElementException()\n
hasNext = false\n        }\n        else {\n            next += step\n        }\n        return value.toChar()\n    }\n}\n\n/**\n *
An iterator over a progression of values of type `Int`.\n
* @property step the number by which the value is incremented on each step.\n */\ninternal class
IntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator() {\n    private val finalElement: Int = last\n
private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n    private var next: Int = if (hasNext) first
else finalElement\n\n    override fun hasNext(): Boolean = hasNext\n\n    override fun nextInt(): Int {\n        val
value = next\n        if (value == finalElement) {\n            if (!hasNext) throw kotlin.NoSuchElementException()\n
hasNext = false\n        }\n        else {\n            next += step\n        }\n        return value\n    }\n}\n\n/**\n * An
iterator over a progression of values of type `Long`.\n * @property step the number by which the value is
incremented on each step.\n */\ninternal class LongProgressionIterator(first: Long, last: Long, val step: Long) :
LongIterator() {\n    private val finalElement: Long = last\n
private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n    private var next: Long = if (hasNext)
first else finalElement\n\n    override fun hasNext(): Boolean = hasNext\n\n    override fun nextLong(): Long {\n
val value = next\n        if (value == finalElement) {\n            if (!hasNext) throw
kotlin.NoSuchElementException()\n            hasNext = false\n        }\n        else {\n            next += step\n        }\n
return value\n    }\n}\n}\n\n", /*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\nimport
kotlin.internal.getProgressionLastElement\n\n/**\n * A progression of values of type `Char`.\n */\npublic open class
CharProgression\n    internal constructor\n        (\n            start: Char,\n            endInclusive:
Char,\n            step: Int\n        ): Iterable<Char> {\n    init {\n        if (step == 0) throw
kotlin.IllegalArgumentException("Step must be non-zero.")\n        if (step == Int.MIN_VALUE) throw
kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to avoid overflow on negation.")\n    }\n\n    /**\n     * The first element in the progression.\n     */\n    public val first: Char = start\n\n    /**\n     * The
last element in the progression.\n     */\n    public val last: Char = getProgressionLastElement(start.code,
endInclusive.code, step).toChar()\n\n    /**\n     * The step of the progression.\n     */\n    public val step: Int =
step\n\n    override fun iterator(): CharIterator = CharProgressionIterator(first, last, step)\n\n    /**\n     * Checks if
the progression is empty.\n     */\n    * Progression with a positive step is empty if its first element is greater than the
last element.\n     * Progression with a negative step is empty if its first
element is less than the last element.\n     */\n    public open fun isEmpty(): Boolean = if (step > 0) first > last else
first < last\n\n    override fun equals(other: Any?): Boolean =\n        other is CharProgression && (isEmpty() &&
other.isEmpty() ||\n            first == other.first && last == other.last && step == other.step)\n\n    override fun
hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (31 * first.code + last.code) + step)\n\n    override fun toString():
String = if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"\n\n    companion object {\n
        /**\n         * Creates CharProgression within the specified bounds of a closed range.\n         */\n        * The
progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the

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specified [step].\n      * In order to go backwards the [step] must be negative.\n      *\n      * [step] must be
greater than `Int.MIN_VALUE` and not equal
to zero.\n      */\n      public fun fromClosedRange(rangeStart: Char, rangeEnd: Char, step: Int): CharProgression
= CharProgression(rangeStart, rangeEnd, step)\n  }\n}\n\n/**\n * A progression of values of type `Int`.\n */\npublic
open class IntProgression\n  internal constructor\n  (\n    start: Int,\n    endInclusive: Int,\n    step:
Int\n  ): Iterable<Int> {\n  init {\n    if (step == 0) throw kotlin.IllegalArgumentException("Step must be non-
zero.")\n    if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than
Int.MIN_VALUE to avoid overflow on negation.")\n  }\n\n  /**\n   * The first element in the progression.\n
*/\n   public val first: Int = start\n\n  /**\n   * The last element in the progression.\n   */\n   public val last: Int =
getProgressionLastElement(start, endInclusive, step)\n\n  /**\n   * The step of the progression.\n   */\n   public
val step: Int = step\n\n  override fun iterator(): IntIterator = IntProgressionIterator(first, last, step)\n\n  /**\n   * Checks if the
progression is empty.\n   *\n   * Progression with a positive step is empty if its first element is greater than the last
element.\n   * Progression with a negative step is empty if its first element is less than the last element.\n   */\n   public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n  override fun equals(other: Any?):
Boolean =\n    other is IntProgression && (isEmpty() && other.isEmpty()) ||\n    first == other.first && last ==
other.last && step == other.step\n\n  override fun hashCode(): Int =\n    if (isEmpty()) -1 else (31 * (31 * first +
last) + step)\n\n  override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last
step ${-step}"\n\n  companion object {\n    /**\n     * Creates IntProgression within the specified bounds of a
closed range.\n     *\n     * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not
excluding it, with the specified [step].\n     * In order to go backwards the [step] must be negative.\n     *\n     * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n     */\n     public fun
fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression = IntProgression(rangeStart, rangeEnd,
step)\n  }\n}\n\n/**\n * A progression of values of type `Long`.\n */\npublic open class LongProgression\n  internal constructor\n  (\n    start: Long,\n    endInclusive: Long,\n    step: Long\n  ):
Iterable<Long> {\n  init {\n    if (step == 0L) throw kotlin.IllegalArgumentException("Step must be non-
zero.")\n    if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than
Long.MIN_VALUE to avoid overflow on negation.")\n  }\n\n  /**\n   * The first
element in the progression.\n   */\n   public val first: Long = start\n\n  /**\n   * The last element in the
progression.\n   */\n   public val last: Long = getProgressionLastElement(start, endInclusive, step)\n\n  /**\n   *
The step of the progression.\n   */\n   public val step: Long = step\n\n  override fun iterator(): LongIterator =
LongProgressionIterator(first, last, step)\n\n  /**\n   * Checks if the progression is empty.\n   *\n   * Progression with a positive step is empty if its first element is greater than the last element.\n   * Progression with a
negative step is empty if its first element is less than the last element.\n   */\n   public open fun isEmpty(): Boolean
= if (step > 0) first > last else first < last\n\n  override fun equals(other: Any?): Boolean =\n    other is
LongProgression && (isEmpty() && other.isEmpty()) ||\n    first == other.first && last == other.last && step ==
other.step\n\n  override fun hashCode(): Int
= \n    if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))) + (step xor (step ushr
32))).toInt()\n\n  override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last
step ${-step}"\n\n  companion object {\n    /**\n     * Creates LongProgression within the specified bounds of
a closed range.\n     *\n     * The progression starts with the [rangeStart] value and goes toward the [rangeEnd]
value not excluding it, with the specified [step].\n     * In order to go backwards the [step] must be negative.\n     *\n     * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.\n     */\n     public fun
fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart,
rangeEnd, step)\n  }\n}\n\n"/>\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
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```

package kotlin.ranges

 * Represents a range of values (for example, numbers or characters) where both the lower and upper bounds are
 * included in the range.
 * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.

public interface
ClosedRange<T : Comparable<T>> {
    * The minimum value in the range.
    public val start:
T
    * The maximum value in the range (inclusive).
    public val endInclusive: T

 * Checks whether the specified [value] belongs to the range.
 * A value belongs to the closed range if it is
greater than or equal to the [start] bound and less than or equal to the [endInclusive] bound.
    public
operator fun contains(value: T): Boolean = value >= start && value <= endInclusive

 * Checks
whether the range is
empty.
    public fun
isEmpty(): Boolean = start > endInclusive
}

 * Represents a range of values (for example, numbers or
characters) where the upper bound is not included in the range.
 * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.

@SinceKotlin("1.9")
@WasExperimental(ExperimentalStdlibApi::class)
public interface OpenEndRange<T
: Comparable<T>> {
    * The minimum value in the range.
    public val start: T
    *
The maximum value in the range (exclusive).
    @throws IllegalStateException can be thrown if the
exclusive end bound cannot be represented
    with a value of type [T].
    public val endExclusive: T

 * Checks whether the specified [value] belongs to the range.
 * A value belongs to the open-
ended range
if it is greater than or equal to the [start] bound and strictly less than the [endExclusive] bound.
    public
operator fun contains(value: T): Boolean = value >= start && value < endExclusive

 * Checks whether
the range is empty.
    public fun isEmpty(): Boolean = start >= endExclusive
}

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license that can be found in the license/LICENSE.txt file.

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("RangesKt")
package
kotlin.ranges

 * Represents a range of [Comparable] values.

private open class ComparableRange<T :
Comparable<T>>(\n override val start: T,\n override val endInclusive: T) : ClosedRange<T> {
    override
fun equals(other: Any?): Boolean
{
    return other is ComparableRange<*> && (isEmpty() && other.isEmpty() ||\n start == other.start
&& endInclusive == other.endInclusive)\n }

    override fun hashCode(): Int {
    return if (isEmpty()) -1
else 31 * start.hashCode() + endInclusive.hashCode()\n }

    override fun toString(): String =
"$start..$endInclusive"
}

 * Creates a range from this [Comparable] value to the specified [that] value.
 * This value needs to be smaller than or equal to [that] value, otherwise the returned range will be empty.
 *
@sample samples.ranges.Ranges.rangeFromComparable

public operator fun <T : Comparable<T>>
T.rangeTo(that: T): ClosedRange<T> = ComparableRange(this, that)

 * Represents a range of [Comparable]
values.

private open class ComparableOpenEndRange<T : Comparable<T>>(\n override val start: T,\n
override val endExclusive: T) : OpenEndRange<T> {
    override fun equals(other: Any?): Boolean {
    return other is ComparableOpenEndRange<*> && (isEmpty() && other.isEmpty() ||\n start ==
other.start && endExclusive == other.endExclusive)\n }

    override fun hashCode(): Int {
    return if
(isEmpty()) -1 else 31 * start.hashCode() + endExclusive.hashCode()\n }

    override fun toString(): String =
"$start..$endExclusive"
}

 * Creates an open-ended range from this [Comparable] value to the specified
[that] value.
 * This value needs to be smaller than [that] value, otherwise the returned range will be empty.
 *
@sample samples.ranges.Ranges.rangeFromComparable

@SinceKotlin("1.9")
@WasExperimental(ExperimentalStdlibApi::class)
public operator fun <T :
Comparable<T>> T.rangeUntil(that: T): OpenEndRange<T> = ComparableOpenEndRange(this, that)

 * Represents a range of floating point numbers.
 * Extends [ClosedRange] interface providing custom operation

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[lessThanOrEquals] for comparing values of range domain type.\n
*\n * This interface is implemented by floating point ranges returned by [Float.rangeTo] and [Double.rangeTo]
operators to\n * achieve IEEE-754 comparison order instead of total order of floating point numbers.\n
*\n@SinceKotlin("1.1")\npublic interface ClosedFloatingPointRange<T : Comparable<T>> : ClosedRange<T>
{\n    override fun contains(value: T): Boolean = lessThanOrEquals(start, value) && lessThanOrEquals(value,
endInclusive)\n    override fun isEmpty(): Boolean = !lessThanOrEquals(start, endInclusive)\n\n    /**\n     *
Compares two values of range domain type and returns true if first is less than or equal to second.\n     */\n    fun
lessThanOrEquals(a: T, b: T): Boolean\n}\n\n/**\n * A closed range of values of type `Double`.\n * Numbers
are compared with the ends of this range according to IEEE-754.\n */\nprivate class ClosedDoubleRange(\n    start:
Double,\n    endInclusive: Double)\n    : ClosedFloatingPointRange<Double> {\n    private val _start = start\n
private
val _endInclusive = endInclusive\n    override val start: Double get() = _start\n    override val endInclusive: Double
get() = _endInclusive\n\n    override fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b\n\n    override
fun contains(value: Double): Boolean = value >= _start && value <= _endInclusive\n    override fun isEmpty():
Boolean = !(_start <= _endInclusive)\n\n    override fun equals(other: Any?): Boolean {\n        return other is
ClosedDoubleRange && (isEmpty() && other.isEmpty() ||\n            _start == other._start && _endInclusive ==
other._endInclusive)\n    }\n\n    override fun hashCode(): Int {\n        return if (isEmpty()) -1 else 31 *
_start.hashCode() + _endInclusive.hashCode()\n    }\n\n    override fun toString(): String =
"\$_start..\$_endInclusive"\n}\n\n/**\n * Creates a range from this [Double] value to the specified [that] value.\n */\n
* Numbers are compared with the ends of this range according to IEEE-754.\n * @sample
samples.ranges.Ranges.rangeFromDouble\n
*\n@SinceKotlin("1.1")\npublic operator fun Double.rangeTo(that: Double):
ClosedFloatingPointRange<Double> = ClosedDoubleRange(this, that)\n\n/**\n * An open-ended range of values of
type `Double`.\n * Numbers are compared with the ends of this range according to IEEE-754.\n */\nprivate class
OpenEndDoubleRange(\n    start: Double,\n    endExclusive: Double)\n    : OpenEndRange<Double> {\n    private val
_start = start\n    private val _endExclusive = endExclusive\n    override val start: Double get() = _start\n
override
val endExclusive: Double get() = _endExclusive\n\n    private fun lessThanOrEquals(a: Double, b: Double):
Boolean = a <= b\n\n    override fun contains(value: Double): Boolean = value >= _start && value <
_endExclusive\n\n    override fun isEmpty(): Boolean = !(_start < _endExclusive)\n\n    override fun equals(other:
Any?): Boolean {\n        return other is OpenEndDoubleRange && (isEmpty() && other.isEmpty() ||\n            _start ==
other._start && _endExclusive == other._endExclusive)\n    }\n\n    override fun hashCode(): Int {\n        return if
(isEmpty()) -1 else 31 * _start.hashCode() + _endExclusive.hashCode()\n    }\n\n    override fun toString(): String =
"\$_start.<.\$_endExclusive"\n}\n\n/**\n * Creates an open-ended range from this [Double] value to the specified
[that] value.\n * Numbers are compared with the ends of this range according to IEEE-754.\n */\n*\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic operator fun
Double.rangeUntil(that: Double): OpenEndRange<Double> = OpenEndDoubleRange(this, that)\n\n/**\n * A
closed range of values of type `Float`.\n * Numbers are compared with the ends of this range according to IEEE-
754.\n */\nprivate class ClosedFloatRange(\n    start: Float,\n    endInclusive: Float)\n    :
ClosedFloatingPointRange<Float> {\n    private val _start = start\n    private val _endInclusive = endInclusive\n
override val start: Float get()
= _start\n    override val endInclusive: Float get() = _endInclusive\n\n    override fun lessThanOrEquals(a: Float, b:
Float): Boolean = a <= b\n\n    override fun contains(value: Float): Boolean = value >= _start && value <=
_endInclusive\n\n    override fun isEmpty(): Boolean = !(_start <= _endInclusive)\n\n    override fun equals(other:
Any?): Boolean {\n        return other is ClosedFloatRange && (isEmpty() && other.isEmpty() ||\n            _start
== other._start && _endInclusive == other._endInclusive)\n    }\n\n    override fun hashCode(): Int {\n        return
if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\n    }\n\n    override fun toString(): String =
"\$_start..\$_endInclusive"\n}\n\n/**\n * Creates a range from this [Float] value to the specified [that] value.\n */\n
*\n

```



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* See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections)\n *
for more information.\n
*\n@SinceKotlin("1.1")\npublic data class KTypeProjection constructor(\n    /**\n     * The use-site variance
specified in the projection, or `null` if this is a star projection.\n     */\n    public val variance: KVariance?,\n    /**\n     * The type specified in the projection, or `null` if this is a star projection.\n     */\n    public val type: KType?)\n{\n    init {\n        require((variance == null) == (type == null)) {\n            if (variance == null)\n                \"Star
projection must have no type specified.\"\n            else\n                \"The projection variance $variance requires type
to be specified.\"\n        }\n    }\n\n    override fun toString(): String = when (variance) {\n        null -> \"*\nKVariance.INVARIANT -> type.toString()\n        KVariance.IN -> \"in $type\"\n        KVariance.OUT -> \"out
$type\"\n    }\n\n    public companion object {\n        // provided for compiler access\n        @JvmField\n        @PublishedApi\n        internal val star: KTypeProjection = KTypeProjection(null, null)\n\n        /**\n         * Star projection, denoted by
the `*` character.\n         * For example, in the type `KClass<*>`, `*` is the star projection.\n         * See the [Kotlin
language documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)\n         * for more
information.\n         */\n        public val STAR: KTypeProjection get() = star\n\n        /**\n         * Creates an
invariant projection of a given type. Invariant projection is just the type itself,\n         * without any use-site variance
modifiers applied to it.\n         * For example, in the type `Set<String>`, `String` is an invariant projection of the type
represented by the class `String`.\n         */\n        @JvmStatic\n        public fun invariant(type: KType):
KTypeProjection =\n            KTypeProjection(KVariance.INVARIANT, type)\n\n        /**\n         * Creates a
contravariant projection of a given type, denoted
by the `in` modifier applied to a type.\n         * For example, in the type `MutableList<in Number>`, `in Number` is
a contravariant projection of the type of class `Number`.\n         */\n        @JvmStatic\n        public fun
contravariant(type: KType): KTypeProjection =\n            KTypeProjection(KVariance.IN, type)\n\n        /**\n         *
Creates a covariant projection of a given type, denoted by the `out` modifier applied to a type.\n         * For example,
in the type `Array<out Number>`, `out Number` is a covariant projection of the type of class `Number`.\n         */\n        @JvmStatic\n        public fun covariant(type: KType): KTypeProjection =\n            KTypeProjection(KVariance.OUT, type)\n    }\n}\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n * Represents variance
applied to a type parameter on the declaration site (*declaration-site variance*),\n * or to a type in a projection
(*use-site variance*).\n */\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/generics.html#variance)\n * for more information.\n */\n *
@see [KTypeParameter.variance]\n * @see [KTypeProjection]\n */\n@SinceKotlin("1.1")\nenum class KVariance
{\n    /**\n     * The affected type parameter or type is *invariant*, which means it has no variance applied to it.\n     */\n    INVARIANT,\n\n    /**\n     * The affected type parameter or type is *contravariant*. Denoted by the `in`
modifier in the source code.\n     */\n    IN,\n\n    /**\n     * The affected type parameter or type is *covariant*.
Denoted by the `out` modifier in the source code.\n     */\n    OUT,\n}\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found
in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n * Returns a runtime representation of the
given reified type [T] as an instance of [KType].\n */\n * Note that on JVM, the created type has no annotations
([KType.annotations] returns an empty list)\n * even if the type in the source code is annotated. Support for type
annotations might be added in a future version.\n */\n */\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <reified T>
typeOf(): KType =\n    throw UnsupportedOperationException(\"This function is implemented as an intrinsic on all
supported platforms.\")\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n

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*^@file:kotlin.jvm.JvmMultifileClass^@file:kotlin.jvm.JvmName("\\StringsKt\\")^package
kotlin.text^/^/**^ An object to which char sequences and
values can be appended.^/^nextp interface Appendable {^/^ /**^ Appends the specified character [value]
to this Appendable and returns this instance.^/^ /**^ @param value the character to append.^/^ fun
append(value: Char): Appendable^/^ /**^ Appends the specified character sequence [value] to this
Appendable and returns this instance.^/^ /**^ @param value the character sequence to append. If [value] is
`null`, then the four characters `\\null\\` are appended to this Appendable.^/^ fun append(value:
CharSequence?): Appendable^/^ /**^ Appends a subsequence of the specified character sequence [value] to
this Appendable and returns this instance.^/^ /**^ @param value the character sequence from which a
subsequence is appended. If [value] is `null`,^/^ then characters are appended as if [value] contained the four
characters `\\null\\`.^/^ @param startIndex the beginning (inclusive) of the subsequence
to append.^/^ @param endIndex the end (exclusive) of the subsequence to append.^/^ /**^ @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.^/^ fun append(value: CharSequence?,
startIndex: Int, endIndex: Int): Appendable^/^/^/**^ Appends a subsequence of the specified character
sequence [value] to this Appendable and returns this instance.^/^ /**^ @param value the character sequence from
which a subsequence is appended.^/^ @param startIndex the beginning (inclusive) of the subsequence to append.^/^
@param endIndex the end (exclusive) of the subsequence to append.^/^ /**^ @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.^/^
*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^public
fun <T : Appendable> T.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): T {^/^
@Suppress("\\UNCHECKED_CAST")^ return append(value, startIndex, endIndex) as T^/^/^/**^ Appends
all arguments to the given [Appendable].^/^/^public fun <T : Appendable> T.append(vararg value:
CharSequence?): T {^/^ for (item in value)^/^ append(item)^/^ return this^/^/^/**^ Appends a line feed
character (`\\n`) to this Appendable.^/^@SinceKotlin("1.4")^@kotlin.internal.InlineOnly^/^public inline fun
Appendable.appendLine(): Appendable = append("\\n")^/^/^/**^ Appends value to the given Appendable and a line
feed character (`\\n`) after it.^/^@SinceKotlin("1.4")^@kotlin.internal.InlineOnly^/^public inline fun
Appendable.appendLine(value: CharSequence?): Appendable = append(value).appendLine()^/^/^/**^ Appends value
to the given Appendable and a line feed character (`\\n`) after it.
*^@SinceKotlin("1.4")^@kotlin.internal.InlineOnly^/^public inline
fun Appendable.appendLine(value: Char): Appendable = append(value).appendLine()^/^/^internal fun <T>
Appendable.appendElement(element: T, transform: ((T) -> CharSequence?) {^/^ when {^/^ transform != null -
> append(transform(element))^/^ element is CharSequence? -> append(element)^/^ element is Char ->
append(element)^/^ else -> append(element.toString())^/^ }^/^/^,")^/^/^/**^ Copyright 2010-2023 JetBrains s.r.o.
and Kotlin Programming Language contributors.^/^ Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.^/^/^package kotlin.text^/^import
kotlin.internal.InlineOnly^/^/^/**^ Represents hexadecimal format options.^/^ /**^ To create a new [HexFormat]
use `HexFormat` function.^/^@ExperimentalStdlibApi^@SinceKotlin("1.9")^public class HexFormat internal
constructor(^/^ /**^ Specifies whether upper case hexadecimal digits `0-9`, `A-F` should be used for
formatting.^/^
* If `false`, lower case hexadecimal digits `0-9`, `a-f` will be used.^/^ /**^ Affects both `ByteArray` and
numeric value formatting.^/^ val upperCase: Boolean,^/^ /**^ Specifies hexadecimal format used for
formatting and parsing `ByteArray`.^/^ /**^ val bytes: BytesHexFormat,^/^ /**^ Specifies hexadecimal
format used for formatting and parsing a numeric value.^/^ /**^ val number: NumberHexFormat {^/^/^
override fun toString(): String = buildString {^/^ append("\\HexFormat(\\).appendLine()^/^ append("\\
upperCase = \\").append(upperCase).appendLine("\\,")^/^ append("\\ bytes =
BytesHexFormat(\\).appendLine()^/^ bytes.appendOptionsTo(this, indent = \\ \\").appendLine()

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append("  "),").appendLine()\n    append("    number = NumberHexFormat("").appendLine()\n
number.appendOptionsTo(this, indent = "    ").appendLine()\n    append("  ").appendLine()\n
append(")\n")\n
} \n\n /** \n * Represents hexadecimal format options for formatting and parsing `ByteArray`. \n * \n *
When formatting one can assume that bytes are firstly separated using LF character (`\n`) into lines \n * with
[bytesPerLine] bytes in each line. The last line may have fewer bytes. \n * Then each line is separated into groups
using [groupSeparator] with [bytesPerGroup] bytes in each group, \n * except the last group in the line, which may
have fewer bytes. \n * All bytes in a group are separated using [byteSeparator]. \n * Each byte is converted to its
two-digit hexadecimal representation, \n * immediately preceded by [bytePrefix] and immediately succeeded by
[byteSuffix]. \n * \n * When parsing the input string is required to be in the format described above. \n *
However, any of the char sequences CRLF, LF and CR is considered a valid line separator, \n * and parsing is
performed in case-insensitive manner. \n * \n * See
[BytesHexFormat.Builder] to find out how the options are configured, \n * and what is the default value of each
option. \n */ \n public class BytesHexFormat internal constructor(\n /** The maximum number of bytes per
line. */ \n val bytesPerLine: Int, \n /** The maximum number of bytes per group. */ \n val
bytesPerGroup: Int, \n /** The string used to separate adjacent groups in a line. */ \n val groupSeparator:
String, \n /** The string used to separate adjacent bytes in a group. */ \n val byteSeparator: String, \n
/** The string that immediately precedes two-digit hexadecimal representation of each byte. */ \n val bytePrefix:
String, \n /** The string that immediately succeeds two-digit hexadecimal representation of each byte. */ \n
val byteSuffix: String \n ) {\n\n    override fun toString(): String = buildString {\n
append("BytesHexFormat(").appendLine()\n        appendOptionsTo(this,\n            indent = "    ").appendLine()\n        append(")\n")\n    }\n\n    internal fun appendOptionsTo(sb:
StringBuilder, indent: String): StringBuilder {\n        sb.append(indent).append("bytesPerLine =
").append(bytesPerLine).appendLine(",")\n        sb.append(indent).append("bytesPerGroup =
").append(bytesPerGroup).appendLine(",")\n        sb.append(indent).append("groupSeparator =
").append(groupSeparator).appendLine(",")\n        sb.append(indent).append("byteSeparator =
").append(byteSeparator).appendLine(",")\n        sb.append(indent).append("bytePrefix =
").append(bytePrefix).appendLine(",")\n        sb.append(indent).append("byteSuffix =
").append(byteSuffix).appendLine(",")\n        return sb\n    }\n\n    /** \n * A context for building a
[BytesHexFormat]. Provides API for configuring format options. \n */ \n    class Builder internal constructor(\n
{\n\n        /** \n * Defines [BytesHexFormat.bytesPerLine] of the format being built, [Int.MAX_VALUE] by
default. \n * \n * The value must be positive. \n * \n * @throws
IllegalArgumentOutOfRangeException if a non-positive value is assigned to this property. \n */ \n        var bytesPerLine:
Int = Default.bytesPerLine\n        set(value) {\n            if (value <= 0)\n                throw
IllegalArgumentOutOfRangeException("Non-positive values are prohibited for bytesPerLine, but was $value")\n            field = value\n        }\n\n        /** \n * Defines [BytesHexFormat.bytesPerGroup] of the format being
built, [Int.MAX_VALUE] by default. \n * \n * The value must be positive. \n * \n *
@throws IllegalArgumentOutOfRangeException if a non-positive value is assigned to this property. \n */ \n        var
bytesPerGroup: Int = Default.bytesPerGroup\n        set(value) {\n            if (value <= 0)\n                throw
IllegalArgumentOutOfRangeException("Non-positive
values are prohibited for bytesPerGroup, but was $value")\n            field = value\n        }\n\n        /** \n * Defines
[BytesHexFormat.groupSeparator] of the format being built, two space characters (` `) by default. \n */ \n        var
groupSeparator: String = Default.groupSeparator\n\n        /** \n * Defines
[BytesHexFormat.byteSeparator] of the format being built, empty string by default. \n * \n * The string
must not contain LF and CR characters. \n * \n * @throws IllegalArgumentOutOfRangeException if a string
containing LF or CR character is assigned to this property. \n */ \n        var byteSeparator: String =
Default.byteSeparator\n        set(value) {\n            if (value.contains("\n") || value.contains("\r"))\n

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        throw IllegalArgumentException("LF and CR characters are prohibited in byteSeparator, but was
$value)")\n        field = value\n        }\n\n        /**\n        * Defines [BytesHexFormat.bytePrefix] of
the format being built, empty string by default.\n        *\n        * The string must not contain LF and CR
characters.\n        *\n        * @throws IllegalArgumentException if a string containing LF or CR character is
assigned to this property.\n        */\n        var bytePrefix: String = Default.bytePrefix\n        set(value) {\n        if (value.contains("\n") || value.contains("\r"))\n        throw IllegalArgumentException("LF and
CR characters are prohibited in bytePrefix, but was $value")\n        field = value\n        }\n\n        /**\n        * Defines [BytesHexFormat.byteSuffix] of the format being built, empty string by default.\n        *\n        * The string must not contain LF and CR characters.\n        *\n        * @throws
IllegalArgumentException if a string containing LF or CR character is assigned to this property.\n        */\n        var byteSuffix: String = Default.byteSuffix\n        set(value) {\n        if (value.contains("\n") ||
value.contains("\r"))\n        throw IllegalArgumentException("LF and CR characters are prohibited in
byteSuffix, but was $value")\n        field = value\n        }\n\n        internal fun build():
BytesHexFormat {\n        return BytesHexFormat(bytesPerLine, bytesPerGroup, groupSeparator,
byteSeparator, bytePrefix, byteSuffix)\n        }\n\n        internal companion object {\n        internal val
Default = BytesHexFormat(\n        bytesPerLine = Int.MAX_VALUE,\n        bytesPerGroup =
Int.MAX_VALUE,\n        groupSeparator = "\n",\n        byteSeparator = "\",\n        bytePrefix = "\",\n        byteSuffix = ""\n        )\n        }\n\n        /**\n        * Represents hexadecimal format options for formatting and parsing a numeric value.\n        *\n        * The formatting result consist of [prefix] string, hexadecimal representation of the value being formatted, and [suffix]
string.\n        *\n        * Hexadecimal representation of a value is calculated by mapping each four-bit chunk\n        *\n        * of its binary
representation to the corresponding hexadecimal digit, starting with the most significant bits.\n        *\n        * [upperCase]
determines whether upper case `0-9`, `A-F` or lower case `0-9`, `a-f` hexadecimal digits are used.\n        *\n        * If
[removeLeadingZeros] it `true`, leading zeros in the hexadecimal representation are removed.\n        *\n        * For
example, the binary representation of the `Byte` value `58` is the 8-bit long `00111010`,\n        *\n        * which converts to a
hexadecimal representation of `3a` or
`3A` depending on [upperCase].\n        *\n        * Whereas, the binary representation of the `Int` value `58` is the 32-bit long
`000000000000000000000000000000111010`,\n        *\n        * which converts to a hexadecimal representation of `0000003a` or
`0000003A` depending on [upperCase].\n        *\n        * If [removeLeadingZeros] it `true`, leading zeros in `0000003a` are
removed, resulting `3a`.\n        *\n        * To convert a value to hexadecimal string of a particular length,\n        *\n        * first
convert the value to a type with the corresponding bit size.\n        *\n        * For example, to convert an `Int` value to 4-digit
hexadecimal string,\n        *\n        * convert the value `toShort()` before hexadecimal formatting.\n        *\n        * To convert it to
hexadecimal string of at most 4 digits\n        *\n        * without leading zeros, set [removeLeadingZeros] to `true` in addition.\n        *\n        * Parsing requires [prefix] and [suffix] to be present in the input string,\n        *\n        * and the amount of
hexadecimal digits to be at least one and at most the value bit size divided
by four.\n        *\n        * Parsing is performed in case-insensitive manner, and [removeLeadingZeros] is ignored as well.\n        *\n        * See [NumberHexFormat.Builder] to find out how the options are configured,\n        *\n        * and what is the default
value of each option.\n        */\n        public class NumberHexFormat internal constructor(\n        /** The string that
immediately precedes hexadecimal representation of a numeric value. */\n        val prefix: String,\n        /** The
string that immediately succeeds hexadecimal representation of a numeric value. */\n        val suffix: String,\n        /** Specifies whether to remove leading zeros in the hexadecimal representation of a numeric value. */\n        val
removeLeadingZeros: Boolean\n        ) {\n        override fun toString(): String = buildString {\n        append("NumberHexFormat(").appendLine().appendOptionsTo(this, indent = "\n").appendLine().append(")")\n        }\n\n        internal fun appendOptionsTo(sb:
StringBuilder, indent: String): StringBuilder {\n        sb.append(indent).append("prefix =
\\\"\\").append(prefix).appendLine("\\\"\\",")\n        sb.append(indent).append("suffix =
\\\"\\").append(suffix).appendLine("\\\"\\",")\n        sb.append(indent).append("removeLeadingZeros =
\\").append(removeLeadingZeros)\n        return sb\n        }\n\n        /**\n        * A context for building a

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[NumberHexFormat]. Provides API for configuring format options.\n      */\n      class Builder internal
constructor() {\n      /**\n      * Defines [NumberHexFormat.prefix] of the format being built, empty string
by default.\n      */\n      * The string must not contain LF and CR characters.\n      */\n      * @throws
IllegalArgumentException if a string containing LF or CR character is assigned to this property.\n      */\n
var prefix: String = Default.prefix\n      set(value) {\n      if
(value.contains("\n") || value.contains("\r"))\n      throw IllegalArgumentException("\nLF and CR
characters are prohibited in prefix, but was $value")\n      field = value\n      }\n      /**\n
* Defines [NumberHexFormat.suffix] of the format being built, empty string by default.\n      */\n      * The
string must not contain LF and CR characters.\n      */\n      * @throws IllegalArgumentException if a string
containing LF or CR character is assigned to this property.\n      */\n      var suffix: String = Default.suffix\n
set(value) {\n      if (value.contains("\n") || value.contains("\r"))\n      throw
IllegalArgumentException("\nLF and CR characters are prohibited in suffix, but was $value")\n      field =
value\n      }\n      /** Defines [NumberHexFormat.removeLeadingZeros] of the format being built,
empty string by default. */\n      var removeLeadingZeros: Boolean = Default.removeLeadingZeros\n\n
internal fun build(): NumberHexFormat {\n      return NumberHexFormat(prefix, suffix,
removeLeadingZeros)\n      }\n      }\n      internal companion object {\n      internal val Default =
NumberHexFormat(\n      prefix = "\",\n      suffix = "\",\n      removeLeadingZeros = false\n
)\n      }\n      }\n      /**\n      * A context for building a [HexFormat]. Provides API for configuring format
options.\n      */\n      public class Builder @PublishedApi internal constructor() {\n      /** Defines
[HexFormat.upperCase] of the format being built, `false` by default. */\n      var upperCase: Boolean =
Default.upperCase\n      /**\n      * Defines [HexFormat.bytes] of the format being built.\n      */\n      * See
[BytesHexFormat.Builder] for default values of the options.\n      */\n
val bytes: BytesHexFormat.Builder\n      get() {\n      if (_bytes == null) {\n      _bytes =
BytesHexFormat.Builder()\n      }\n      return _bytes!!\n      }\n      private var _bytes:
BytesHexFormat.Builder? = null\n      /**\n      * Defines [HexFormat.number] of the format being built.\n
*/\n      * See [NumberHexFormat.Builder] for default values of the options.\n      */\n      val number:
NumberHexFormat.Builder\n      get() {\n      if (_number == null) {\n      _number =
NumberHexFormat.Builder()\n      }\n      return _number!!\n      }\n      private var _number:
NumberHexFormat.Builder? = null\n      /**\n      * Provides a scope for configuring the [HexFormat.bytes]
format options.\n      */\n      * See [BytesHexFormat.Builder] for default values of the options.\n      */\n
@InlineOnly\n      inline
fun bytes(builderAction: BytesHexFormat.Builder.() -> Unit) {\n      bytes.builderAction()\n      }\n\n
/**\n      * Provides a scope for configuring the [HexFormat.number] format options.\n      */\n      * See
[NumberHexFormat.Builder] for default values of the options.\n      */\n      @InlineOnly\n      inline fun
number(builderAction: NumberHexFormat.Builder.() -> Unit) {\n      number.builderAction()\n      }\n\n
@PublishedApi\n      internal fun build(): HexFormat {\n      return HexFormat(\n      upperCase,\n
_bytes?.build() ?: BytesHexFormat.Default,\n      _number?.build() ?: NumberHexFormat.Default\n
)\n      }\n      }\n      }\n      companion object {\n      /**\n      * The default hexadecimal format options.\n      */\n
* Uses lower case hexadecimal digits `0-9`, `a-f` when formatting\n      * both `ByteArray` and numeric values.
That is [upperCase] is `false`.\n
      */\n      * No line separator, group separator, byte separator, byte prefix or byte suffix is used\n      * when
formatting or parsing `ByteArray`. That is:\n      * * [BytesHexFormat.bytesPerLine] is `Int.MAX_VALUE`.\n
* * [BytesHexFormat.bytesPerGroup] is `Int.MAX_VALUE`.\n      * * [BytesHexFormat.byteSeparator],
[BytesHexFormat.bytePrefix] and [BytesHexFormat.byteSuffix] are empty strings.\n      */\n      * No prefix or
suffix is used, and no leading zeros in hexadecimal representation are removed\n      * when formatting or parsing
a numeric value. That is:\n      * * [NumberHexFormat.prefix] and [NumberHexFormat.suffix] are empty
strings.\n      * * [NumberHexFormat.removeLeadingZeros] is `false`.\n      */\n      public val Default:
HexFormat = HexFormat(\n      upperCase = false,\n      bytes = BytesHexFormat.Default,\n      number =

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NumberHexFormat.Default, \n      )\n      /**\n      * Uses upper
case hexadecimal digits `0-9`, `A-F` when formatting\
n      * both `ByteArray` and numeric values. That is
[upperCase] is `true`. \n      *\n      * The same as [Default] format in other aspects. \n      */\n      public val
UpperCase: HexFormat = HexFormat(\n          upperCase = true, \n          bytes = BytesHexFormat.Default, \n
number = NumberHexFormat.Default, \n      )\n  }\n}\n\n/**\n * Builds a new [HexFormat] by configuring its
format options using the specified [builderAction], \n * and returns the resulting format. \n *\n * The builder passed
as a receiver to the [builderAction] is valid only inside that function. \n * Using it outside of the function produces an
unspecified behavior. \n */\n@ExperimentalStdlibApi\n@SinceKotlin("1.9")\n@InlineOnly\npublic inline fun
HexFormat(builderAction: HexFormat.Builder.() -> Unit): HexFormat {\n    return
HexFormat.Builder().apply(builderAction).build()\n}\n\n", "/**\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file. \n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\n\n/**\n * Trims leading whitespace characters followed by [marginPrefix] from every line of a source
string and removes \n * the first and the last lines if they are blank (notice difference blank vs empty). \n *\n * Doesn't
affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines. \n *\n * Doesn't preserve the
original line endings. \n *\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is
`|` (pipe character). \n *\n * @sample samples.text.Strings.trimMargin\n * @see trimIndent\n * @see
kotlin.text.isWhitespace\n */\n@kotlin.internal.IntrinsicConstEvaluation\npublic fun
String.trimMargin(marginPrefix: String = "|"): String =\n    replaceIndentByMargin("|",
marginPrefix)\n\n/**\n * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with
[newIndent]. \n *\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe
character). \n */\npublic fun String.replaceIndentByMargin(newIndent: String = "|", marginPrefix: String = "|"):
String {\n    require(marginPrefix.isNotBlank()) { "marginPrefix must be non-blank string." }\n    val lines =
lines()\n    return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line ->\n
        val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() }\n        when {\n
firstNonWhitespaceIndex == -1 -> null\n            line.startsWith(marginPrefix, firstNonWhitespaceIndex) ->
line.substring(firstNonWhitespaceIndex + marginPrefix.length)\n            else -> null\n        }\n    })\n}\n\n/**\n *
Detects a common minimal indent of all the input lines, removes it from every line and
also removes the first and the last \n * lines if they are blank (notice difference blank vs empty). \n *\n * Note that
blank lines do not affect the detected indent level. \n *\n * In case if there are non-blank lines with no leading
whitespace characters (no indent at all) then the \n * common indent is 0, and therefore this function doesn't change
the indentation. \n *\n * Doesn't preserve the original line endings. \n *\n * @sample
samples.text.Strings.trimIndent\n * @see trimMargin\n * @see kotlin.text.isBlank\n
*/\n@kotlin.internal.IntrinsicConstEvaluation\npublic fun String.trimIndent(): String = replaceIndent("|")\n\n/**\n *
Detects a common minimal indent like it does [trimIndent] and replaces it with the specified [newIndent]. \n
*/\npublic fun String.replaceIndent(newIndent: String = "|"): String {\n    val lines = lines()\n    val
minCommonIndent = lines\n        .filter(String::isNotBlank)\n        .map(String::indentWidth)\n        .minOrNull() ?:
0\n    return lines.reindent(length
+ newIndent.length * lines.size, getIndentFunction(newIndent), { line -> line.drop(minCommonIndent
)}\n})\n}\n\n/**\n * Prepends [indent] to every line of the original string. \n *\n * Doesn't preserve the original line
endings. \n */\npublic fun String.prependIndent(indent: String = " |"): String =\n    lineSequence()\n        .map {\n
            when {\n                it.isBlank() -> {\n                    when {\n                        it.length < indent.length -> indent\n
                        else -> it\n                    }\n                }\n                else -> indent + it\n            }\n        }\n        .joinToString("\n")\n\nprivate fun String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1)
length else it }\n\nprivate fun getIndentFunction(indent: String) = when {\n    indent.isEmpty() -> { line: String ->
line }\n    else -> { line: String -> indent + line }\n}\n\nprivate inline fun List<String>.reindent(\n
resultSizeEstimate:

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Int, \n indentAddFunction: (String) -> String, \n indentCutFunction: (String) -> String? \n): String { \n val
lastIndex = lastIndex \n return mapIndexedNotNull { index, value -> \n if ((index == 0 || index == lastIndex)
&& value.isBlank()) \n null \n else \n indentCutFunction(value)?.let(indentAddFunction)?: value \n
} \n .joinTo(StringBuilder(resultSizeEstimate), "\\n") \n .toString() \n } \n", "/** \n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file. \n */ \n \n package kotlin.text \n \n /** \n * Defines
names for Unicode symbols used in proper Typography. \n */ \n \n public object Typography { \n /** The character
&#x22; \u2013 quotation mark */ \n public const val quote: Char = "\u0022" \n /** The character &#x24; \u2013
dollar sign */ \n public const val dollar: Char = "\u0024" \n
/** The character &#x26; \u2013 ampersand */ \n public const val amp: Char = "\u0026" \n /** The character
&#x3C; \u2013 less-than sign */ \n public const val less: Char = "\u003C" \n /** The character &#x3E; \u2013
greater-than sign */ \n public const val greater: Char = "\u003E" \n /** The non-breaking space character */ \n
public const val nbsp: Char = "\u00A0" \n /** The character &#xD7; */ \n public const val times: Char =
"\u00D7" \n /** The character &#xA2; */ \n public const val cent: Char = "\u00A2" \n /** The character &#xA3;
*/ \n public const val pound: Char = "\u00A3" \n /** The character &#xA7; */ \n public const val section: Char =
"\u00A7" \n /** The character &#xA9; */ \n public const val copyright: Char = "\u00A9" \n /** The character
&#xAB; */ \n @SinceKotlin("1.6") \n public const val leftGuillemet: Char = "\u00AB" \n /** The character
&#xBB; */ \n @SinceKotlin("1.6") \n public const val rightGuillemet:
Char = "\u00BB" \n /** The character &#xAE; */ \n public const val registered: Char = "\u00AE" \n /** The
character &#xB0; */ \n public const val degree: Char = "\u00B0" \n /** The character &#xB1; */ \n public const
val plusMinus: Char = "\u00B1" \n /** The character &#xB6; */ \n public const val paragraph: Char = "\u00B6" \n
/** The character &#xB7; */ \n public const val middleDot: Char = "\u00B7" \n /** The character &#xBD; */ \n
public const val half: Char = "\u00BD" \n /** The character &#x2013; */ \n public const val ndash: Char =
"\u2013" \n /** The character &#x2014; */ \n public const val mdash: Char = "\u2014" \n /** The character
&#x2018; */ \n public const val leftSingleQuote: Char = "\u2018" \n /** The character &#x2019; */ \n public
const val rightSingleQuote: Char = "\u2019" \n /** The character &#x201A; */ \n public const val
lowSingleQuote: Char = "\u201A" \n /** The character &#x201C; */ \n public const val
leftDoubleQuote: Char = "\u201C" \n /** The character &#x201D; */ \n public const val rightDoubleQuote: Char
= "\u201D" \n /** The character &#x201E; */ \n public const val lowDoubleQuote: Char = "\u201E" \n /** The
character &#x2020; */ \n public const val dagger: Char = "\u2020" \n /** The character &#x2021; */ \n public
const val doubleDagger: Char = "\u2021" \n /** The character &#x2022; */ \n public const val bullet: Char =
"\u2022" \n /** The character &#x2026; */ \n public const val ellipsis: Char = "\u2026" \n /** The character
&#x2032; */ \n public const val prime: Char = "\u2032" \n /** The character &#x2033; */ \n public const val
doublePrime: Char = "\u2033" \n /** The character &#x20AC; */ \n public const val euro: Char = "\u20AC" \n
/** The character &#x2122; */ \n public const val tm: Char = "\u2122" \n /** The character &#x2248; */ \n
public const val almostEqual: Char = "\u2248" \n /** The character &#x2260; */ \n public const val notEqual: Char = "\u2260" \n
/** The character &#x2264; */ \n public const val lessOrEqual: Char = "\u2264" \n /** The character &#x2265; */ \n public const val greaterOrEqual: Char =
"\u2265" \n /** The character &#xAB; */ \n @Deprecated("This constant has a typo in the name. Use
leftGuillemet instead.", ReplaceWith("Typography.leftGuillemet")) \n @DeprecatedSinceKotlin("1.6") \n
public const val leftGuillemete: Char = "\u00AB" \n /** The character &#xBB; */ \n @Deprecated("This
constant has a typo in the name. Use rightGuillemet instead.", ReplaceWith("Typography.rightGuillemet")) \n
@DeprecatedSinceKotlin("1.6") \n public const val rightGuillemete: Char = "\u00BB" \n } \n", "/** \n * Copyright
2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file. \n */ \n \n package kotlin.text \n \n import
kotlin.internal.InlineOnly \n \n
----- format and parse UByteArray ----- \n \n /** \n * Formats bytes in this array
using the specified [format]. \n */ \n * Note that only [HexFormat.upperCase] and [HexFormat.BytesHexFormat]

```

affect formatting. \n \* \n \* @param format the [HexFormat] to use for formatting, [HexFormat.Default] by default. \n \* \n \* @throws IllegalArgumentException if the result length is more than [String] maximum capacity. \n \* \n \* \n \* @ExperimentalStdlibApi \n \* @SinceKotlin("1.9") \n \* @ExperimentalUnsignedTypes \n \* @InlineOnly \n \* public inline fun UByteArray.toHexString(format: HexFormat = HexFormat.Default): String = storage.toHexString(format) \n \* \n \* \n \* Formats bytes in this array using the specified [HexFormat]. \n \* \n \* Note that only [HexFormat.upperCase] and [HexFormat.BytesHexFormat] affect formatting. \n \* \n \* @param startIndex the beginning (inclusive) of the subrange to format, 0 by default. \n \* @param endIndex the end (exclusive) of the subrange to format, size of this array by default. \n \* @param format the [HexFormat] to use for formatting, [HexFormat.Default] by default. \n \* @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this array indices. \n \* @throws IllegalArgumentException when `startIndex > endIndex`. \n \* @throws IllegalArgumentException if the result length is more than [String] maximum capacity. \n \* \n \* \n \* @ExperimentalStdlibApi \n \* @SinceKotlin("1.9") \n \* @ExperimentalUnsignedTypes \n \* @InlineOnly \n \* public inline fun UByteArray.toHexString(\n \* startIndex: Int = 0, \n \* endIndex: Int = size, \n \* format: HexFormat = HexFormat.Default \n \* ): String = storage.toHexString(startIndex, endIndex, format) \n \* \n \* \n \* Parses bytes from this string using the specified [HexFormat]. \n \* \n \* Note that only [HexFormat.BytesHexFormat] affects parsing, \n \* and parsing is performed in case-insensitive manner. \n \* Also, any of the char sequences CRLF, LF and CR is considered a valid line separator. \n \* \n \* @param format the [HexFormat] to use for parsing, [HexFormat.Default] by default. \n \* \n \* @throws IllegalArgumentException if this string does not comply with the specified [format]. \n \* \n \* \n \* @ExperimentalStdlibApi \n \* @SinceKotlin("1.9") \n \* @ExperimentalUnsignedTypes \n \* @InlineOnly \n \* public inline fun String.hexToUByteArray(format: HexFormat = HexFormat.Default): UByteArray = hexToByteArray(format).asUByteArray() \n \* \n \* \n \* Parses bytes from this string using the specified [HexFormat]. \n \* \n \* Note that only [HexFormat.BytesHexFormat] affects parsing, \n \* and parsing is performed in case-insensitive manner. \n \* Also, any of the char sequences CRLF, LF and CR is considered a valid line separator. \n \* \n \* @param startIndex the beginning (inclusive) of the substring to parse, 0 by default. \n \* @param endIndex the end (exclusive) of the substring to parse, length of this string by default. \n \* @param format the [HexFormat] to use for parsing, [HexFormat.Default] by default. \n \* \n \* @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this string indices. \n \* @throws IllegalArgumentException when `startIndex > endIndex`. \n \* @throws IllegalArgumentException if the substring does not comply with the specified [format]. \n \* \n \* \n \* @ExperimentalStdlibApi \n \* @SinceKotlin("1.9") \n \* @ExperimentalUnsignedTypes \n \* @InlineOnly \n \* public inline fun String.hexToUByteArray(\n \* startIndex: Int = 0, \n \* endIndex: Int = length, \n \* format: HexFormat = HexFormat.Default \n \* ): UByteArray = hexToByteArray(startIndex, endIndex, format).asUByteArray() \n \* \n \* -----  
----- format and parse UByte ----- \n \* \n \* \n \* Formats this `UByte` value using the specified [format]. \n \* \n \* Note that only [HexFormat.upperCase] and [HexFormat.NumberHexFormat] affect formatting. \n \* \n \* @param format the [HexFormat] to use for formatting, [HexFormat.Default] by default. \n \* \n \* \n \* @ExperimentalStdlibApi \n \* @SinceKotlin("1.9") \n \* @InlineOnly \n \* public inline fun UByte.toHexString(format: HexFormat = HexFormat.Default): String = data.toHexString(format) \n \* \n \* \n \* Parses an `UByte` value from this string using the specified [format]. \n \* \n \* Note that only [HexFormat.NumberHexFormat] affects parsing, \n \* and parsing is performed in case-insensitive manner. \n \* \n \* @param format the [HexFormat] to use for parsing, [HexFormat.Default] by default. \n \* \n \* @throws IllegalArgumentException if this string does not comply with the specified [format]. \n \* \n \* \n \* @ExperimentalStdlibApi \n \* @SinceKotlin("1.9") \n \* @InlineOnly \n \* public inline fun String.hexToUByte(format: HexFormat = HexFormat.Default): UByte = hexToByte(format).toUByte() \n \* \n \* \n \* Parses an `UByte` value from this string using the specified [format]. \n \* \n \* Note that only [HexFormat.NumberHexFormat] affects parsing, \n \* and parsing is performed in case-insensitive manner. \n \* \n \* @param startIndex the beginning (inclusive) of the substring

to parse, 0 by default.\n// \* @param endIndex the end (exclusive) of the substring to parse, length of this string by default.\n// \* @param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n// \* \n// \* @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this string indices.\n// \* @throws IllegalArgumentException when `startIndex > endIndex`.\n// \* @throws IllegalArgumentException if the substring does not comply with the specified [format].\n//

```

*\n//@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\n//@InlineOnly\n//public inline fun
String.hexToUByte(startIndex: Int = 0, endIndex: Int = length, format: HexFormat = HexFormat.Default): UByte
=\n//  hexToByte(startIndex, endIndex, format).toUByte()\n// ----- format and parse UShort -----
-----\n\n**\n * Formats this `UShort` value using the specified [format].\n * \n * Note that only
[HexFormat.upperCase] and [HexFormat.NumberHexFormat] affect
formatting.\n * \n * @param format the [HexFormat] to use for formatting, [HexFormat.Default] by default.\n
*\n//@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\n//@InlineOnly\npublic inline fun UShort.toHexString(format:
HexFormat = HexFormat.Default): String = data.toHexString(format)\n\n**\n * Parses an `UShort` value from this
string using the specified [format].\n * \n * Note that only [HexFormat.NumberHexFormat] affects parsing.\n * and
parsing is performed in case-insensitive manner.\n * \n * @param format the [HexFormat] to use for parsing,
[HexFormat.Default] by default.\n * \n * @throws IllegalArgumentException if this string does not comply with the
specified [format].\n * \n//@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\n//@InlineOnly\npublic inline fun
String.hexToUShort(format: HexFormat = HexFormat.Default): UShort =
hexToShort(format).toUShort()\n\n**\n// * Parses an `UShort` value from this string using the specified
[format].\n// * \n// * Note that only [HexFormat.NumberHexFormat]
affects parsing,\n// * and parsing is performed in case-insensitive manner.\n// * \n// * @param startIndex the
beginning (inclusive) of the substring to parse, 0 by default.\n// * @param endIndex the end (exclusive) of the
substring to parse, length of this string by default.\n// * @param format the [HexFormat] to use for parsing,
[HexFormat.Default] by default.\n// * \n// * @throws IndexOutOfBoundsException when [startIndex] or [endIndex]
is out of range of this string indices.\n// * @throws IllegalArgumentException when `startIndex > endIndex`.\n// *
@throws IllegalArgumentException if the substring does not comply with the specified [format].\n//
*\n//@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\n//@InlineOnly\n//public inline fun
String.hexToUShort(startIndex: Int = 0, endIndex: Int = length, format: HexFormat = HexFormat.Default): UShort
=\n//  hexToShort(startIndex, endIndex, format).toUShort()\n// ----- format and parse UInt -----
-----\n\n**\n
* Formats this `UInt` value using the specified [format].\n * \n * Note that only [HexFormat.upperCase] and
[HexFormat.NumberHexFormat] affect formatting.\n * \n * @param format the [HexFormat] to use for formatting,
[HexFormat.Default] by default.\n * \n//@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\n//@InlineOnly\npublic
inline fun UInt.toHexString(format: HexFormat = HexFormat.Default): String = data.toHexString(format)\n\n**\n
* Parses an `UInt` value from this string using the specified [format].\n * \n * Note that only
[HexFormat.NumberHexFormat] affects parsing,\n * and parsing is performed in case-insensitive manner.\n * \n *
@param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n * \n * @throws
IllegalArgumentException if this string does not comply with the specified [format].\n
*\n//@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\n//@InlineOnly\npublic inline fun String.hexToUInt(format:
HexFormat = HexFormat.Default): UInt = hexToInt(format).toUInt()\n\n**\n//
* Parses an `UInt` value from this string using the specified [format].\n// * \n// * Note that only
[HexFormat.NumberHexFormat] affects parsing,\n// * and parsing is performed in case-insensitive manner.\n// * \n//
* @param startIndex the beginning (inclusive) of the substring to parse, 0 by default.\n// * @param endIndex the
end (exclusive) of the substring to parse, length of this string by default.\n// * @param format the [HexFormat] to
use for parsing, [HexFormat.Default] by default.\n// * \n// * @throws IndexOutOfBoundsException when
[startIndex] or [endIndex] is out of range of this string indices.\n// * @throws IllegalArgumentException when
`startIndex > endIndex`.\n// * @throws IllegalArgumentException if the substring does not comply with the
specified [format].\n// * \n//@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\n//@InlineOnly\n//public inline fun

```

```

String.hexToUInt(startIndex: Int = 0, endIndex: Int = length, format: HexFormat = HexFormat.Default): UInt
=\\n// hexToInt(startIndex, endIndex, format).toUInt()\\n// ----- format and parse ULONG -----
-----\\n\\n**\\n * Formats this `ULONG` value using the specified [format].\\n *\\n * Note that only
[HexFormat.upperCase] and [HexFormat.NumberHexFormat] affect formatting.\\n *\\n * @param format the
[HexFormat] to use for formatting, [HexFormat.Default] by default.\\n
*\\n@ExperimentalStdlibApi\\n@SinceKotlin("1.9")\\n@InlineOnly\\npublic inline fun ULONG.toHexString(format:
HexFormat = HexFormat.Default): String = data.toHexString(format)\\n\\n**\\n * Parses an `ULONG` value from this
string using the specified [format].\\n *\\n * Note that only [HexFormat.NumberHexFormat] affects parsing.\\n * and
parsing is performed in case-insensitive manner.\\n *\\n * @param format the [HexFormat] to use for parsing,
[HexFormat.Default] by default.\\n *\\n * @throws IllegalArgumentException if this string does not comply with the
specified [format].\\n *\\n@ExperimentalStdlibApi\\n@SinceKotlin("1.9")\\n@InlineOnly\\npublic
inline fun String.hexToULONG(format: HexFormat = HexFormat.Default): ULONG =
hexToLong(format).toULONG()\\n\\n**\\n// * Parses an `ULONG` value from this string using the specified
[format].\\n// *\\n// * Note that only [HexFormat.NumberHexFormat] affects parsing,\\n// * and parsing is performed
in case-insensitive manner.\\n// *\\n// * @param startIndex the beginning (inclusive) of the substring to parse, 0 by
default.\\n// * @param endIndex the end (exclusive) of the substring to parse, length of this string by default.\\n// *
@param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\\n// *\\n// * @throws
IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this string indices.\\n// * @throws
IllegalArgumentException when `startIndex > endIndex`.\\n// * @throws IllegalArgumentException if the substring
does not comply with the specified [format].\\n//
*\\n//@ExperimentalStdlibApi\\n//@SinceKotlin("1.9")\\n//@InlineOnly\\n//public
inline fun String.hexToULONG(startIndex: Int = 0, endIndex: Int = length, format: HexFormat =
HexFormat.Default): ULONG =\\n// hexToLong(startIndex, endIndex, format).toULONG()\\n//,**\\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\\n *\\n\\npackage kotlin.text\\n\\n**\\n *
Represents a collection of captured groups in a single match of a regular expression.\\n *\\n * This collection has size
of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\\n * Groups are indexed
from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\\n *\\n * An element of the
collection at the particular index can be `null`,\\n * if the corresponding group in the regular expression is optional
and\\n * there was no match captured by that group.\\n *\\n@public interface MatchGroupCollection
: Collection<MatchGroup?> {\\n\\n /** Returns a group with the specified [index].\\n *\\n * @return An
instance of [MatchGroup] if the group with the specified [index] was matched or `null` otherwise.\\n *\\n *
Groups are indexed from 1 to the count of groups in the regular expression. A group with the index 0\\n *
corresponds to the entire match.\\n *\\n * public operator fun get(index: Int): MatchGroup?\\n}\\n\\n**\\n * Extends
[MatchGroupCollection] by introducing a way to get matched groups by name, when regex supports it.\\n
*\\n@SinceKotlin("1.1")\\n@public interface MatchNamedGroupCollection : MatchGroupCollection {\\n /**\\n *
Returns a named group with the specified [name].\\n * @return An instance of [MatchGroup] if the group with the
specified [name] was matched or `null` otherwise.\\n * @throws IllegalArgumentException if there is no group
with the specified [name] defined in the regex pattern.\\n * @throws UnsupportedOperationException
if this match group collection doesn't support getting match groups by name,\\n * for example, when it's not
supported by the current platform.\\n *\\n * public operator fun get(name: String): MatchGroup?\\n}\\n\\n**\\n *
Represents the results from a single regular expression match.\\n *\\n@public interface MatchResult {\\n /** The
range of indices in the original string where match was captured. *\\n * public val range: IntRange\\n /** The
substring from the input string captured by this match. *\\n * public val value: String\\n /**\\n * A collection of
groups matched by the regular expression.\\n *\\n * This collection has size of `groupCount + 1` where
`groupCount` is the count of groups in the regular expression.\\n * Groups are indexed from 1 to `groupCount` and
group with the index 0 corresponds to the entire match.\\n *\\n * public val groups: MatchGroupCollection\\n
/**\\n * A list of matched indexed group values.\\n *\\n * This list has

```

```

size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n
 * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n
 * If the group in the regular expression is optional and there were no match captured by that group,\n
 * corresponding item in [groupValues] is an empty string.\n
 * @sample
samples.text.Regexps.matchDestructuringToGroupValues\n
 */\n
 public val groupValues: List<String>\n
/**\n
 * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment
of group values.\n
 * component1 corresponds to the value of the first group, component2 \u2014 of the
second, and so on.\n
 * @sample samples.text.Regexps.matchDestructuringToGroupValues\n
 */\n
 public val destructured: Destructured get() = Destructured(this)\n
/** Returns a new [MatchResult] with the
results for the next match, starting
at the position\n
 * at which the last match ended (at the character after the last matched character).\n
 */\n
 public fun next(): MatchResult?\n
/**\n
 * Provides components for destructuring assignment of group
values.\n
 * [component1] corresponds to the value of the first group, [component2] \u2014 of the second,
and so on.\n
 * If the group in the regular expression is optional and there were no match captured by that
group,\n
 * corresponding component value is an empty string.\n
 * @sample
samples.text.Regexps.matchDestructuringToGroupValues\n
 */\n
 public class Destructured internal
constructor(public val match: MatchResult) {\n
 @kotlin.internal.InlineOnly\n
 public operator inline fun
component1(): String = match.groupValues[1]\n
 @kotlin.internal.InlineOnly\n
 public operator inline fun
component2(): String = match.groupValues[2]\n
 @kotlin.internal.InlineOnly\n
 public operator
inline fun component3(): String = match.groupValues[3]\n
 @kotlin.internal.InlineOnly\n
 public operator
inline fun\n
component4(): String = match.groupValues[4]\n
 @kotlin.internal.InlineOnly\n
 public operator
inline fun\n
component5(): String = match.groupValues[5]\n
 @kotlin.internal.InlineOnly\n
 public operator
inline fun\n
component6(): String = match.groupValues[6]\n
 @kotlin.internal.InlineOnly\n
 public operator
inline fun\n
component7(): String = match.groupValues[7]\n
 @kotlin.internal.InlineOnly\n
 public operator
inline fun\n
component8(): String = match.groupValues[8]\n
 @kotlin.internal.InlineOnly\n
 public operator
inline fun\n
component9(): String = match.groupValues[9]\n
 @kotlin.internal.InlineOnly\n
 public operator
inline fun\n
component10(): String = match.groupValues[10]\n
/**\n
 * Returns destructured group values
as a list of strings.\n
 * First value in
the returned list corresponds to the value of the first group, and so on.\n
 * @sample
samples.text.Regexps.matchDestructuringToGroupValues\n
 */\n
 public fun toList(): List<String> =
match.groupValues.subList(1, match.groupValues.size)\n
 } \n
}"/\n
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Kotlin Programming Language contributors.\n
 * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*/\n
@file:kotlin.jvm.JvmMultifileClass()\n
@file:kotlin.jvm.JvmName("DurationUnitKt")\n
package
kotlin.time\n
/**\n
 * The list of possible time measurement units, in which a duration can be expressed.\n
 * The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24
[HOURS].\n
 * @SinceKotlin("1.6")\n
 * @WasExperimental(ExperimentalTime::class)\n
 * public expect enum class
DurationUnit {\n
 /**\n
 * Time unit representing one nanosecond, which is 1/1000
of a microsecond.\n
 */\n
 NANOSECONDS,\n
 /**\n
 * Time unit representing one microsecond, which is
1/1000 of a millisecond.\n
 */\n
 MICROSECONDS,\n
 /**\n
 * Time unit representing one millisecond,
which is 1/1000 of a second.\n
 */\n
 MILLISECONDS,\n
 /**\n
 * Time unit representing one second.\n
 */\n
 SECONDS,\n
 /**\n
 * Time unit representing one minute.\n
 */\n
 MINUTES,\n
 /**\n
 * Time unit
representing one hour.\n
 */\n
 HOURS,\n
 /**\n
 * Time unit representing one day, which is always equal to
24 hours.\n
 */\n
 DAYS;\n
 }\n
/** Converts the given time duration [value] expressed in the specified
[sourceUnit] into the specified [targetUnit].\n
 * @SinceKotlin("1.3")\n
 * internal expect fun
convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double\n
// overflown
result is unspecified\n
 * @SinceKotlin("1.5")\n
 * internal expect fun convertDurationUnitOverflow(value: Long,
sourceUnit:

```



```

DurationUnit, targetUnit: DurationUnit): Long\n\n// overflowed result is coerced in the Long range
boundaries\n@SinceKotlin("1.5")\ninternal expect fun convertDurationUnit(value: Long, sourceUnit:
DurationUnit, targetUnit: DurationUnit):
Long\n\n\n@SinceKotlin("1.3")\n@Suppress("REDUNDANT_ELSE_IN_WHEN")\ninternal fun
DurationUnit.shortName(): String = when (this) {\n    DurationUnit.NANOSECONDS -> "ns"\n
DurationUnit.MICROSECONDS -> "us"\n    DurationUnit.MILLISECONDS -> "ms"\n
DurationUnit.SECONDS -> "s"\n    DurationUnit.MINUTES -> "m"\n    DurationUnit.HOURS -> "h"\n
DurationUnit.DAYS -> "d"\n    else -> error("Unknown unit: $this")\n}\n\n@SinceKotlin("1.5")\ninternal fun
durationUnitByShortName(shortName: String): DurationUnit = when (shortName) {\n    "ns" ->
DurationUnit.NANOSECONDS\n    "us" -> DurationUnit.MICROSECONDS\n    "ms" ->
DurationUnit.MILLISECONDS\n    "s" -> DurationUnit.SECONDS\n    "m" -> DurationUnit.MINUTES\n
"h" -> DurationUnit.HOURS\n    "d" -> DurationUnit.DAYS\n    else -> throw IllegalArgumentException("Unknown
duration unit short name: $shortName")\n}\n\n@SinceKotlin("1.5")\ninternal fun
durationUnitByIsoChar(isoChar: Char, isTimeComponent: Boolean): DurationUnit =\n    when {\n        !isTimeComponent -> {\n            when (isoChar) {\n                'D' -> DurationUnit.DAYS\n                else -> throw
IllegalArgumentException("Invalid or unsupported duration ISO non-time unit: $isoChar")\n            }\n        }\n        else -> {\n            when (isoChar) {\n                'H' -> DurationUnit.HOURS\n                'M' ->
DurationUnit.MINUTES\n                'S' -> DurationUnit.SECONDS\n                else -> throw
IllegalArgumentException("Invalid duration ISO time unit: $isoChar")\n            }\n        }\n    }, "/*\n * Copyright
2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport
kotlin.annotation.AnnotationTarget.*\n\n/**\n * This annotation marks the experimental preview of the standard
library API for measuring time and working with durations.\n *\n * > Note that this API is in a preview state and has
a very high chance of being changed in the future.\n *\n * Do not use it if you develop a library since your library will
become binary incompatible\n * with the future versions of the standard library.\n *\n * Any usage of a declaration
annotated with `@ExperimentalTime` must be accepted either by\n * annotating that usage with the [OptIn]
annotation, e.g. `@OptIn(ExperimentalTime::class)`,\n * or by using the compiler argument `-opt-in=kotlin.time.ExperimentalTime`.\n */\n\n@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(\n    CLASS,\n    ANNOTATION_CLASS,\n    PROPERTY,\n    FIELD,\n    LOCAL_VARIABLE,\n    VALUE_PARAMETER,\n    CONSTRUCTOR,\n    FUNCTION,\n    PROPERTY_GETTER,\n    PROPERTY_SETTER,\n    TYPEALIAS)\n@SinceKotlin("1.3")\npublic annotation class
ExperimentalTime\n\n/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.jvm.JvmInline\n\n/**\n * A source of time
for measuring time intervals.\n *\n * The only operation provided by the time source is [markNow]. It returns a
[TimeMark], which can be used to query the elapsed time later.\n *\n * @see [measureTime]\n * @see
[measureTimedValue]\n */\n\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalTime::class)\npublic
interface TimeSource {\n    /**\n     * Marks a point in time on this time source.\n     *\n     * The returned
[TimeMark] instance encapsulates the captured time point and allows querying\n     * the duration
of time interval [elapsed][TimeMark.elapsedNow] from that point.\n     *\n     * public fun markNow():
TimeMark\n     */\n    /**\n     * A [TimeSource] that returns [time marks][ComparableTimeMark] that can be compared
for difference with each other.\n     *\n     * @SinceKotlin("1.9")\n     */\n    @WasExperimental(ExperimentalTime::class)\n    public interface WithComparableMarks : TimeSource {\n
        override fun markNow(): ComparableTimeMark\n    }\n\n    /**\n     * The most precise time source available in the
platform.\n     *\n     * This time source returns its readings from a source of monotonic time when it is available in a

```



[duration] is positive, and more `_early_` when the [duration] is negative.

- \* If the time mark is adjusted too far in the past or in the future, it may saturate to an infinitely distant time mark.
- \* In that case, `elapsedNow` will return an infinite duration elapsed from such infinitely distant mark.
- \* @throws `IllegalArgumentException` an implementation may throw if a positive infinite duration is added to an infinitely distant past time mark or
- \* a negative infinite duration is added to an infinitely distant future time mark.

```

public operator fun plus(duration: Duration): TimeMark =
    AdjustedTimeMark(this, duration)

```

- \* Returns a time mark on the same time source that is behind this time mark by the specified [duration].
- \* The returned time mark is more `_early_` when the [duration] is positive, and more `_late_` when the [duration] is negative.
- \* If the time mark is adjusted too far in the past or in the future, it may saturate to an infinitely distant time mark.
- \* In that case, `elapsedNow` will return an infinite duration elapsed from such infinitely distant mark.
- \* @throws `IllegalArgumentException` an implementation may throw if a positive infinite duration is subtracted from an infinitely distant future time mark or
- \* a negative infinite duration is subtracted from an infinitely distant past time mark.

```

public open operator fun minus(duration: Duration): TimeMark =
    plus(-duration)

```

- \* Returns true if this time mark has passed according to the time source from which this mark was taken.
- \* Note that the value returned by this function can change on subsequent invocations.
- \* If the time source is monotonic, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point of the time source.

```

public fun hasPassedNow(): Boolean =
    !elapsedNow().isNegative()

```

- \* Returns false if this time mark has not passed according to the time source from which this mark was taken.
- \* Note that the value returned by this function can change on subsequent invocations.
- \* If the time source is monotonic, it can change only from `true` to `false`, namely, when the time mark becomes behind the current point of the time source.

```

public fun hasNotPassedNow(): Boolean = elapsedNow().isNegative()

```

A `TimeMark` that can be compared for difference with other time marks obtained from the same `TimeSource.WithComparableMarks` time source.

@SinceKotlin("1.9")  
@WasExperimental(ExperimentalTime::class)  
public interface ComparableTimeMark : TimeMark, Comparable<ComparableTimeMark> {  
 public abstract override operator fun plus(duration: Duration): ComparableTimeMark  
 public open override operator fun minus(duration: Duration): ComparableTimeMark = plus(-duration)  
 /\*\*  
 \* Returns the duration elapsed between the [other] time mark and `this` time mark.  
 \* The returned duration can be infinite if the time marks are far away from each other and  
 \* the result doesn't fit into [Duration] type,  
 \* or if one time mark is infinitely distant, or if both `this` and [other] time marks  
 \* lie infinitely distant on the opposite sides of the time scale.  
 \* Two infinitely distant time marks on the same side of the time scale are considered equal and  
 \* the duration between them is [Duration.ZERO].  
 \* Note that the other time mark must be obtained from the same time source as this one.  
 \* @throws `IllegalArgumentException` if time marks were obtained from different time sources.  
 \*/  
 public operator fun minus(other: ComparableTimeMark): Duration  
 /\*\*  
 \* Compares this time mark with the [other] time mark for order.  
 \* - Returns zero if this time mark represents *the same moment* of time as the [other] time mark.  
 \* - Returns a negative number if this time mark is *earlier* than the [other] time mark.  
 \* - Returns a positive number if this time mark is *later* than the [other] time mark.  
 \* Note that the other time mark must be obtained from the same time source as this one.  
 \* @throws `IllegalArgumentException` if time marks were obtained from different time sources.  
 \*/  
 public override operator fun compareTo(other: ComparableTimeMark): Int =  
 (this - other).compareTo(Duration.ZERO)  
 /\*\*  
 \* Returns `true` if two time marks from the same time source represent the same moment of time, and `false` otherwise,  
 \* including the situation when the time marks were obtained from different time sources.  
 \*/  
 override fun equals(other: Any?): Boolean  
 override fun hashCode(): Int  
}

```

private class AdjustedTimeMark(val mark: TimeMark, val adjustment: Duration) :
    TimeMark {
    override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment
    override fun plus(duration: Duration): TimeMark = AdjustedTimeMark(mark, adjustment + duration)
}

```

"/>\*\*  
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```

by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport\nkotlin.math.sign\n\n@SinceKotlin("1.3")\ninternal expect object MonotonicTimeSource :  
TimeSource.WithComparableMarks {\n    override fun markNow(): TimeSource.Monotonic.ValueTimeMark\nfun elapsedFrom(timeMark: TimeSource.Monotonic.ValueTimeMark): Duration\n    fun differenceBetween(one:  
TimeSource.Monotonic.ValueTimeMark, another: TimeSource.Monotonic.ValueTimeMark): Duration\n    fun\nadjustReading(timeMark: TimeSource.Monotonic.ValueTimeMark, duration: Duration):  
TimeSource.Monotonic.ValueTimeMark\n}\n\n/**\n * An abstract class used to implement time sources that return  
their readings as [Long] values in the specified [unit].\n * Time marks returned by this time source can be  
compared for difference with other time marks\n * obtained from the same time source.\n * @property unit The  
unit in which this time source's readings are expressed.\n\n*/\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalTime::class)\npublic abstract class  
AbstractLongTimeSource(protected  
    val unit: DurationUnit) : TimeSource.WithComparableMarks {\n    /**\n     * This protected method should be  
overridden to return the current reading of the time source expressed as a [Long] number\n     * in the unit specified  
by the [unit] property.\n     *\n     * Note that the value returned by this method when [markNow] is called the first  
time is used as "zero" reading\n     * and the difference from this "zero" reading is calculated for subsequent  
values.\n     * Therefore, it's not recommended to return values farther than `Long.MAX_VALUE` from the  
first returned reading\n     * as this will cause this time source flip over future/past boundary for the returned time  
marks.\n     *\n     protected abstract fun read(): Long\n\n    private val zero by lazy { read() }\n    private fun  
adjustedRead(): Long = read() - zero\n\n    private class LongTimeMark(private val startedAt: Long, private val  
timeSource: AbstractLongTimeSource, private val offset: Duration) : ComparableTimeMark  
{\n        override fun elapsedNow(): Duration =\n            saturatingOriginsDiff(timeSource.adjustedRead(),  
startedAt, timeSource.unit) - offset\n\n        override fun plus(duration: Duration): ComparableTimeMark {\n            val unit = timeSource.unit\n            if (duration.isInfinite()) {\n                val newValue = saturatingAdd(startedAt,  
unit, duration)\n                return LongTimeMark(newValue, timeSource, Duration.ZERO)\n            }\n            val  
durationInUnit = duration.truncateTo(unit)\n            val rest = (duration - durationInUnit) + offset\n            var sum  
= saturatingAdd(startedAt, unit, durationInUnit)\n            val restInUnit = rest.truncateTo(unit)\n            sum =  
saturatingAdd(sum, unit, restInUnit)\n            var restUnderUnit = rest - restInUnit\n            val restUnderUnitNs =  
restUnderUnit.inWholeNanoseconds\n            if (sum != 0L && restUnderUnitNs != 0L && (sum xor  
restUnderUnitNs) < 0L) {\n                // normalize offset to be the same sign as new startedAt\n                val correction =  
restUnderUnitNs.sign.toDuration(unit)\n                sum = saturatingAdd(sum, unit, correction)\n                restUnderUnit -= correction\n            }\n            val newValue = sum\n            val newOffset = if  
(newValue.isSaturated()) Duration.ZERO else restUnderUnit\n            return LongTimeMark(newValue,  
timeSource, newOffset)\n        }\n\n        override fun minus(other: ComparableTimeMark): Duration {\n            if  
(other !is LongTimeMark || this.timeSource != other.timeSource)\n                throw  
IllegalArgumentException("Subtracting or comparing time marks from different time sources is not possible: $this  
and $other")\n            val startedAtDiff = saturatingOriginsDiff(this.startedAt, other.startedAt, timeSource.unit)\n            return startedAtDiff + (offset - other.offset)\n        }\n\n        override fun equals(other: Any?): Boolean =\n            other  
is LongTimeMark && this.timeSource == other.timeSource && (this - other) == Duration.ZERO\n\n        override  
fun hashCode(): Int = offset.hashCode() * 37 + startedAt.hashCode()\n\n        override fun toString(): String =  
"LongTimeMark($startedAt${timeSource.unit.shortName()} + $offset, $timeSource)"\n    }\n\n    override fun  
markNow(): ComparableTimeMark = LongTimeMark(adjustedRead(), this, Duration.ZERO)\n}\n\n/**\n * An  
abstract class used to implement time sources that return their readings as [Double] values in the specified [unit].\n * Time marks returned by this time source can be  
compared for difference with other time marks\n * obtained from the same time source.\n * @property unit The  
unit in which this time source's readings are expressed.\n\n*/\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Using AbstractDoubleTimeSource is no longer  
recommended, use AbstractLongTimeSource instead.")\npublic abstract class

```

```

AbstractDoubleTimeSource(protected val unit: DurationUnit) : TimeSource.WithComparableMarks {
    This protected method should be overridden to return the current reading of
    the time source expressed as a [Double] number in the unit specified by the [unit] property.
    protected abstract fun read(): Double
}

@Suppress("DEPRECATION")
private class
DoubleTimeMark(private val startedAt: Double, private val timeSource: AbstractDoubleTimeSource, private val
offset: Duration) : ComparableTimeMark {
    override fun elapsedNow(): Duration = (timeSource.read() -
startedAt).toDuration(timeSource.unit) - offset
    override fun plus(duration: Duration): ComparableTimeMark
= DoubleTimeMark(startedAt, timeSource, offset + duration)
    override fun minus(other:
ComparableTimeMark): Duration {
        if (other !is DoubleTimeMark || this.timeSource != other.timeSource)
            throw IllegalArgumentException("Subtracting or comparing time marks from different time sources is not
possible: $this and $other")
        if (this.offset == other.offset && this.offset.isInfinite()) return
Duration.ZERO
        val offsetDiff = this.offset - other.offset
        val startedAtDiff = (this.startedAt -
other.startedAt).toDuration(timeSource.unit)
        return if (startedAtDiff == -offsetDiff) Duration.ZERO else
startedAtDiff + offsetDiff
    }
    override fun equals(other: Any?): Boolean {
        return other is
DoubleTimeMark && this.timeSource == other.timeSource && (this - other) == Duration.ZERO
    }
    override fun hashCode(): Int {
        return (startedAt.toDuration(timeSource.unit) + offset).hashCode()
    }
    override fun toString(): String = "DoubleTimeMark($startedAt${timeSource.unit.shortName()} + $offset,
$timeSource)"
    override fun markNow(): ComparableTimeMark = DoubleTimeMark(read(), this,
Duration.ZERO)
}

/**
 * A time source that has programmatically updatable readings. It is useful as a
predictable source of time in tests.
 * The current reading value can be advanced by the specified
duration amount with the operator [plusAssign]:
 * val timeSource = TestTimeSource()
 * timeSource
+= 10.seconds
 * Time marks returned by this time source can be compared for difference with other
time marks obtained from the same time source.
 * Implementation note: the current reading value is stored
as a [Long] number of nanoseconds, thus it's capable to represent a time range of approximately 1292
years.
 * Should the reading value overflow as the result of [plusAssign] operation, an [IllegalStateException] is
thrown.
 */
@SinceKotlin("1.9")
@WasExperimental(ExperimentalTime::class)
public class TestTimeSource
: AbstractLongTimeSource(unit = DurationUnit.NANOSECONDS) {
    private var reading: Long = 0L
    init {
        markNow() // fix zero reading in the super time source
    }
    override fun read(): Long = reading
}

/**
 * Advances the current reading value of this time source by the specified [duration].
 * [duration] value is rounded down towards zero when converting it to a [Long] number of nanoseconds.
 * For example, if the duration being added is `0.6.nanoseconds`, the reading doesn't advance because the
duration value is rounded to zero nanoseconds.
 * @throws IllegalStateException when the reading value
overflows as the result of this operation.
 */
public operator fun plusAssign(duration: Duration) {
    val
longDelta = duration.toLong(unit)
    if (!longDelta.isSaturated()) {
        // when delta fits in long, add it as
long
        val newReading = reading + longDelta
        if (reading xor longDelta >= 0 && reading xor
newReading < 0) overflow(duration)
        reading = newReading
    } else {
        val half = duration / 2
        if (!half.toLong(unit).isSaturated()) {
            val readingBefore = reading
            try {
                plusAssign(half)
            } catch (e: IllegalStateException) {
                reading =
readingBefore
                throw e
            }
        } else {
            overflow(duration)
        }
    }
}

private fun overflow(duration: Duration) {
    throw IllegalArgumentException("TestTimeSource will
overflow if its reading ${reading}${unit.shortName()} is advanced by $duration.")
}

/**
 * Copyright
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by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmName("LazyKt")
@file:kotlin.jvm.JvmMultifileClass
npackage kotlin
nimport
kotlin.reflect.KProperty
/**
 * Represents a value with lazy initialization.
 * To create an instance of
[Lazy] use the [lazy] function.
 */
public interface Lazy<out T> {

```

```

/**\n * Gets the lazily initialized value of the current Lazy instance.\n * Once the value was initialized it must
not change during the rest of lifetime of this Lazy instance.\n */\n public val value: T\n /**\n * Returns
`true` if a value for this Lazy instance has been already initialized, and `false` otherwise.\n * Once this function
has returned `true` it stays `true` for the rest of lifetime of this Lazy instance.\n */\n public fun isInitialized():
Boolean\n}\n\n/**\n * Creates a new instance of the [Lazy] that is already initialized with the specified [value].\n
*/\npublic fun <T> lazyOf(value: T): Lazy<T> = InitializedLazyImpl(value)\n\n/**\n * An extension to delegate a
read-only property of type [T] to an instance of [Lazy].\n */\n * This extension allows to use instances of Lazy for
property delegation:\n * `val property: String by lazy { initializer }`\n */\n@kotlin.internal.InlineOnly\npublic inline
operator fun <T> Lazy<T>.getValue(thisRef:
Any?, property: KProperty<*>): T = value\n\n/**\n * Specifies how a [Lazy] instance synchronizes initialization
among multiple threads.\n */\npublic enum class LazyThreadSafetyMode {\n\n /**\n * Locks are used to ensure
that only a single thread can initialize the [Lazy] instance.\n */\n SYNCHRONIZED,\n\n /**\n * Initializer
function can be called several times on concurrent access to uninitialized [Lazy] instance value,\n * but only the
first returned value will be used as the value of [Lazy] instance.\n */\n PUBLICATION,\n\n /**\n * No
locks are used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple
threads, its behavior is undefined.\n */\n * This mode should not be used unless the [Lazy] instance is
guaranteed never to be initialized from more than one thread.\n */\n NONE,\n}\n\n\ninternal object
UNINITIALIZED_VALUE\n\n// internal to be called from lazy in JS\ninternal class UnsafeLazyImpl<out
T>(initializer: () -> T) : Lazy<T>, Serializable {\n private var initializer: (() -> T)? = initializer\n private var
_value: Any? = UNINITIALIZED_VALUE\n\n override val value: T\n get() {\n if (_value ===
UNINITIALIZED_VALUE) {\n _value = initializer!!()\n initializer = null\n }\n
@Suppress("UNCHECKED_CAST")\n return _value as T\n }\n\n override fun isInitialized():
Boolean = _value !== UNINITIALIZED_VALUE\n\n override fun toString(): String = if (isInitialized())
value.toString() else "Lazy value not initialized yet."\n\n private fun writeReplace(): Any =
InitializedLazyImpl(value)\n}\n\n\ninternal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>,
Serializable {\n\n override fun isInitialized(): Boolean = true\n\n override fun toString(): String =
value.toString()\n}\n\n\n"/\n\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.time.Duration.Companion.milliseconds\n\n//
Long time reading saturation math, shared between JVM and Native\n\ninternal fun saturatingAdd(value: Long,
unit: DurationUnit, duration: Duration): Long {\n val durationInUnit = duration.toLong(unit)\n if
(value.isSaturated()) { // the reading is infinitely saturated\n return checkInfiniteSumDefined(value, duration,
durationInUnit)\n }\n if (durationInUnit.isSaturated()) { // duration doesn't fit in Long units\n return
saturatingAddInHalves(value, unit, duration)\n }\n val result = value + durationInUnit\n if (((value xor
result) and (durationInUnit xor result)) < 0) {\n return if (value < 0) Long.MIN_VALUE else
Long.MAX_VALUE\n }\n return result\n}\n\nprivate fun checkInfiniteSumDefined(value: Long, duration:
Duration,
durationInUnit: Long): Long {\n if (duration.isInfinite() && (value xor durationInUnit < 0)) throw
IllegalArgumentException("Summing infinities of different signs")\n return value\n}\n\nprivate fun
saturatingAddInHalves(value: Long, unit: DurationUnit, duration: Duration): Long {\n val half = duration / 2\n
val halfInUnit = half.toLong(unit)\n if (halfInUnit.isSaturated()) {\n return halfInUnit // value + inf == inf,
return saturated value\n } else {\n return saturatingAdd(saturatingAdd(value, unit, half), unit, duration -
half)\n }\n}\n\n\nprivate fun infinityOfSign(value: Long): Duration = if (value < 0) Duration.NEG_INFINITE else
Duration.INFINITE\n\ninternal fun saturatingDiff(valueNs: Long, origin: Long, unit: DurationUnit): Duration {\n
if (origin.isSaturated()) { // MIN_VALUE or MAX_VALUE\n return -infinityOfSign(origin)\n }\n return
saturatingFiniteDiff(valueNs, origin, unit)\n}\n\ninternal fun saturatingOriginsDiff(origin1:
Long, origin2: Long, unit: DurationUnit): Duration {\n if (origin2.isSaturated()) {\n if (origin1 == origin2)
return Duration.ZERO // saturated values of the same sign are considered equal\n return -

```

```

infinityOfSign(origin2)\n } \n if (origin1.isSaturated()) {\n     return infinityOfSign(origin1)\n } \n return
saturatingFiniteDiff(origin1, origin2, unit)\n}\n\nprivate fun saturatingFiniteDiff(value1: Long, value2: Long, unit:
DurationUnit): Duration {\n    val result = value1 - value2\n    if ((result xor value1) and (result xor value2).inv() <
0) { // Long overflow\n        if (unit < DurationUnit.MILLISECONDS) {\n            val unitsInMilli =
convertDurationUnit(1, DurationUnit.MILLISECONDS, unit)\n            val resultMs = value1 / unitsInMilli - value2
/ unitsInMilli\n            val resultUnit = value1 % unitsInMilli - value2 % unitsInMilli\n            return
resultMs.milliseconds + resultUnit.toDuration(unit)\n        } else {\n            return
-infinityOfSign(result)\n        } \n } \n return
result.toDuration(unit)\n}\n\n@Suppress("NOTHING_TO_INLINE")\ninternal inline fun Long.isSaturated():
Boolean =\n    (this - 1) or 1 == Long.MAX_VALUE // == either MAX_VALUE or MIN_VALUE\n", /*\n *
Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.time\n\nimport kotlin.contracts.*\n\n/**\n * Executes the given function [block] and returns the duration of
elapsed time interval.\n * The elapsed time is measured with [TimeSource.Monotonic].\n
*\n * @SinceKotlin("1.9")\n * @WasExperimental(ExperimentalTime::class)\n */\npublic inline fun measureTime(block:
() -> Unit): Duration {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return
TimeSource.Monotonic.measureTime(block)\n}\n\n/**\n * Executes the given function [block] and
returns the duration of elapsed time interval.\n * The elapsed time is measured with the specified `this`
[TimeSource] instance.\n * @SinceKotlin("1.9")\n * @WasExperimental(ExperimentalTime::class)\n */\npublic inline
fun TimeSource.measureTime(block: () -> Unit): Duration {\n    contract {\n        callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n    }\n    val mark = markNow()\n    block()\n    return
mark.elapsedNow()\n}\n\n/**\n * Executes the given function [block] and returns the duration of elapsed time
interval.\n * The elapsed time is measured with the specified `this` [TimeSource.Monotonic] instance.\n
*\n * @SinceKotlin("1.9")\n * @WasExperimental(ExperimentalTime::class)\n */\npublic inline fun
TimeSource.Monotonic.measureTime(block: () -> Unit): Duration {\n    contract {\n        callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n    }\n    val mark = markNow()\n    block()\n    return
mark.elapsedNow()\n}\n\n/**\n * Data class representing a result of executing an action,
along with the duration of elapsed time interval.\n * @property value the result of the action.\n * @property
duration the time elapsed to execute the action.\n
*\n * @SinceKotlin("1.9")\n * @WasExperimental(ExperimentalTime::class)\n */\npublic data class TimedValue<T>(val
value: T, val duration: Duration)\n\n/**\n * Executes the given function [block] and returns an instance of
[TimedValue] class, containing both\n * the result of the function execution and the duration of elapsed time
interval.\n * The elapsed time is measured with [TimeSource.Monotonic].\n
*\n * @SinceKotlin("1.9")\n * @WasExperimental(ExperimentalTime::class)\n */\npublic inline fun <T>
measureTimedValue(block: () -> T): TimedValue<T> {\n    contract {\n        callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n    }\n    return
TimeSource.Monotonic.measureTimedValue(block)\n}\n\n/**\n * Executes the given [block] and returns an
instance of [TimedValue] class, containing both\n * the result of function execution and
the duration of elapsed time interval.\n * The elapsed time is measured with the specified `this` [TimeSource]
instance.\n * @SinceKotlin("1.9")\n * @WasExperimental(ExperimentalTime::class)\n */\npublic inline fun <T>
TimeSource.measureTimedValue(block: () -> T): TimedValue<T> {\n    contract {\n        callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n    }\n    val mark = markNow()\n    val result = block()\n    return
TimedValue(result, mark.elapsedNow())\n}\n\n/**\n * Executes the given [block] and returns an instance of
[TimedValue] class, containing both\n * the result of function execution and the duration of elapsed time interval.\n
*\n * The elapsed time is measured with the specified `this` [TimeSource.Monotonic] instance.\n
*\n * @SinceKotlin("1.9")\n * @WasExperimental(ExperimentalTime::class)\n */\npublic inline fun <T>
TimeSource.Monotonic.measureTimedValue(block: () -> T): TimedValue<T> {\n    contract {\n        callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n    }\n\n

```

```

    val mark = markNow()\n    val result = block()\n    return TimedValue(result, mark.elapsedNow())\n}\n"/\n *
Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin\n\nimport kotlin.coroutines.*\nimport kotlin.coroutines.intrinsics.*\nimport
kotlin.native.concurrent.SharedImmutable\n\n/**\n * Defines deep recursive function that keeps its stack on the
heap,\n * which allows very deep recursive computations that do not use the actual call stack.\n * To initiate a call to
this deep recursive function use its [invoke] function.\n * As a rule of thumb, it should be used if recursion goes
deeper than a thousand calls.\n */\n * The [DeepRecursiveFunction] takes one parameter of type [T] and returns a
result of type [R].\n * The [block] of code defines the body of a recursive function. In this block\n *
[callRecursive][DeepRecursiveScope.callRecursive]
function can be used to make a recursive call\n * to the declared function. Other instances of
[DeepRecursiveFunction] can be called\n * in this scope with `callRecursive` extension, too.\n */\n * For example,
take a look at the following recursive tree class and a deeply\n * recursive instance of this tree with 100K nodes:\n
*\n * ```\n * class Tree(val left: Tree? = null, val right: Tree? = null)\n * val deepTree = generateSequence(Tree()) {
Tree(it) }.take(100_000).last()\n * ```\n * A regular recursive function can be defined to compute a depth of a
tree:\n * ```\n * fun depth(t: Tree?): Int =\n *     if (t == null) 0 else max(depth(t.left), depth(t.right)) + 1\n *
println(depth(deepTree)) // StackOverflowError\n * ```\n * If this `depth` function is called for a `deepTree` it
produces `StackOverflowError` because of deep recursion.\n * However, the `depth` function can be rewritten using
`DeepRecursiveFunction` in the following way, and then\n
* it successfully computes [ `depth(deepTree)` ][DeepRecursiveFunction.invoke] expression:\n * ```\n * val
depth = DeepRecursiveFunction<Tree?, Int> { t ->\n *     if (t == null) 0 else max(callRecursive(t.left),
callRecursive(t.right)) + 1\n * } * println(depth(deepTree)) // Ok\n * ```\n * Deep recursive functions can also
mutually call each other using a heap for the stack via\n * [callRecursive][DeepRecursiveScope.callRecursive]
extension. For example, the\n * following pair of mutually recursive functions computes the number of tree nodes at
even depth in the tree.\n * ```\n * val mutualRecursion = object {\n *     val even:
DeepRecursiveFunction<Tree?, Int> = DeepRecursiveFunction { t ->\n *         if (t == null) 0 else
odd.callRecursive(t.left) + odd.callRecursive(t.right) + 1\n *     }\n *     val odd: DeepRecursiveFunction<Tree?,
Int> = DeepRecursiveFunction { t ->\n *         if (t == null) 0 else even.callRecursive(t.left) +
even.callRecursive(t.right)\n *     }\n * }\n * @param [T] the function parameter type.\n * @param [R] the function result type.\n * @param
block the function body.\n */\n @SinceKotlin("1.7")\n @WasExperimental(ExperimentalStdlibApi::class)\n public
class DeepRecursiveFunction<T, R>(\n     internal val block: suspend DeepRecursiveScope<T, R>.()T ->
R)\n\n/**\n * Initiates a call to this deep recursive function, forming a root of the call tree.\n */\n * This operator
should not be used from inside of [DeepRecursiveScope] as it uses the call stack slot for\n * initial recursive
invocation. From inside of [DeepRecursiveScope] use\n * [callRecursive][DeepRecursiveScope.callRecursive].\n
*\n @SinceKotlin("1.7")\n @WasExperimental(ExperimentalStdlibApi::class)\n public operator fun <T, R>
DeepRecursiveFunction<T, R>.invoke(value: T): R =\n     DeepRecursiveScopeImpl<T, R>(block,
value).runCallLoop()\n\n/**\n * A scope class for [DeepRecursiveFunction] function declaration that defines
[callRecursive] methods to\n * recursively
call this function or another [DeepRecursiveFunction] putting the call activation frame on the heap.\n */\n * @param
[T] function parameter type.\n * @param [R] function result type.\n
*\n @RestrictsSuspension\n @SinceKotlin("1.7")\n @WasExperimental(ExperimentalStdlibApi::class)\n public
sealed class DeepRecursiveScope<T, R> {\n     /**\n      * Makes recursive call to this [DeepRecursiveFunction]
function putting the call activation frame on the heap,\n      * as opposed to the actual call stack that is used by a
regular recursive call.\n      */\n     public abstract suspend fun callRecursive(value: T): R\n\n     /**\n      * Makes call
to the specified [DeepRecursiveFunction] function putting the call activation frame on the heap,\n      * as opposed to
the actual call stack that is used by a regular call.\n      */\n     public abstract suspend fun <U, S>
DeepRecursiveFunction<U, S>.callRecursive(value: U): S\n\n     @Deprecated(\n         level =

```



```

DeprecationLevel.ERROR,\n    message
=\n    \\"'invoke' should not be called from DeepRecursiveScope. \\" +\n        \\"Use 'callRecursive' to do
recursion in the heap instead of the call stack.\",\n    replaceWith = ReplaceWith(\\"this.callRecursive(value)\")\n
)\n @Suppress(\\"UNUSED_PARAMETER\")\n    public operator fun DeepRecursiveFunction<*,
*>.invoke(value: Any?): Nothing =\n        throw UnsupportedOperationException(\\"Should not be called from
DeepRecursiveScope\")\n}\n\n// ===== Implementation =====\n\nprivate
typealias DeepRecursiveFunctionBlock = suspend DeepRecursiveScope<*, *>.(Any?) ->
Any?\n\n@SharedImmutable\nprivate val UNDEFINED_RESULT =
Result.success(COROUTINE_SUSPENDED)\n\n@Suppress(\\"UNCHECKED_CAST\")\nprivate class
DeepRecursiveScopeImpl<T, R>(\n    block: suspend DeepRecursiveScope<T, R>.(T) -> R,\n    value: T\n):
DeepRecursiveScope<T, R>(), Continuation<R> {\n    // Active function block\n    private var function:
DeepRecursiveFunctionBlock = block
    as DeepRecursiveFunctionBlock\n    // Value to call function with\n    private var value: Any? = value\n    //
Continuation of the current call\n    private var cont: Continuation<Any?>? = this as Continuation<Any?>\n    //
Completion result (completion of the whole call stack)\n    private var result: Result<Any?> =
UNDEFINED_RESULT\n    override val context: CoroutineContext\n        get() = EmptyCoroutineContext\n    override
fun resumeWith(result: Result<R>) {\n        this.cont = null\n        this.result = result\n    }\n    override
suspend fun callRecursive(value: T): R = suspendCoroutineUninterceptedOrReturn { cont ->\n        // calling the
same function that is currently active\n        this.cont = cont as Continuation<Any?>\n        this.value = value\n
COROUTINE_SUSPENDED\n    }\n    override suspend fun <U, S> DeepRecursiveFunction<U,
S>.callRecursive(value: U): S = suspendCoroutineUninterceptedOrReturn { cont ->\n        // calling another
recursive
function\n        val function = block as DeepRecursiveFunctionBlock\n        with(this@DeepRecursiveScopeImpl)
{\n            val currentFunction = this.function\n            if (function !== currentFunction) {\n                // calling a
different function -- create a trampoline to restore function ref\n                this.function = function\n
this.cont = crossFunctionCompletion(currentFunction, cont as Continuation<Any?>)\n            } else {\n                //
calling the same function -- direct\n                this.cont = cont as Continuation<Any?>\n            }\n            this.value
= value\n        }\n        COROUTINE_SUSPENDED\n    }\n    private fun crossFunctionCompletion(\n
currentFunction: DeepRecursiveFunctionBlock,\n    cont: Continuation<Any?>\n ): Continuation<Any?> =
Continuation(EmptyCoroutineContext) {\n        this.function = currentFunction\n        // When going back from a
trampoline we cannot just call cont.resume (stack
usage!)\n        // We delegate the cont.resumeWith(it) call to runCallLoop\n        this.cont = cont\n        this.result =
it\n    }\n    @Suppress(\\"UNCHECKED_CAST\")\n    fun runCallLoop(): R {\n        while (true) {\n            //
Note: cont is set to null in DeepRecursiveScopeImpl.resumeWith when the whole computation completes\n
val result = this.result\n            val cont = this.cont\n            ?: return (result as Result<R>).getOrThrow() // done -
- final result\n            // The order of comparison is important here for that case of rogue class with broken equals\n
            if (UNDEFINED_RESULT == result) {\n                // call \\"function\\" with \\"value\\" using \\"cont\\" as
completion\n                val r = try {\n                    // This is block.startCoroutine(this, value, cont)\n
function.startCoroutineUninterceptedOrReturn(this, value, cont)\n                } catch (e: Throwable) {\n
cont.resumeWithException(e)\n                continue\n            }\n            // If the function returns without suspension -- calls its continuation
immediately\n            if (r !== COROUTINE_SUSPENDED)\n                cont.resume(r as R)\n            } else
{\n                // we returned from a crossFunctionCompletion trampoline -- call resume here\n                this.result =
UNDEFINED_RESULT // reset result back\n                cont.resumeWith(result)\n            }\n        }\n    }\n}\n\n/*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated
file. DO NOT
EDIT!\n\n@file:kotlin.jvm.JvmName(\\"NumbersKt\")\n@file:kotlin.jvm.JvmMultifileClass\npackage

```

kotlin\n\nimport kotlin.math.sign\n\n/\*\* Divides this value by the other value, flooring the result to an integer that is closer to negative

infinity.

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Byte.floorDiv(other: Byte): Int = \n    this.toInt().floorDiv(other.toInt())\n\n/** Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Byte.mod(other: Byte): Byte = \n    this.toInt().mod(other.toInt()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Byte.floorDiv(other: Short): Int = \n    this.toInt().floorDiv(other.toInt())\n\n/** Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Byte.mod(other: Short): Short = \n    this.toInt().mod(other.toInt()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Byte.floorDiv(other: Int): Int = \n    this.toInt().floorDiv(other)\n\n/** Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Byte.mod(other: Int): Int = \n    this.toInt().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Byte.floorDiv(other: Long): Long = \n    this.toLong().floorDiv(other)\n\n/** Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Byte.mod(other: Long): Long = \n    this.toLong().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Short.floorDiv(other: Byte): Int = \n    this.toInt().floorDiv(other.toInt())\n\n/** Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Short.mod(other: Byte): Byte = \n    this.toInt().mod(other.toInt()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Short.floorDiv(other: Short): Int = \n    this.toInt().floorDiv(other.toInt())\n\n/** Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Short.mod(other: Short): Short = \n    this.toInt().mod(other.toInt()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Short.floorDiv(other: Int): Int = \n    this.toInt().floorDiv(other)\n\n/** Calculates the remainder of flooring
```

division of this value (dividend) by the other value (divisor).\n \* The result is either zero or has the same sign as the \_divisor\_ and has the absolute value less than the absolute value of the divisor.\n

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Short.mod(other: Int): Int = \n    this.toInt().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Short.floorDiv(other: Long): Long = \n    this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Short.mod(other: Long): Long = \n    this.toLong().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Int.floorDiv(other: Byte): Int = \n    this.floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Int.mod(other: Byte): Byte = \n    this.mod(other.toInt()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Int.floorDiv(other: Short): Int = \n    this.floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Int.mod(other: Short): Short = \n    this.mod(other.toInt()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Int.floorDiv(other: Int): Int {\n    var q = this / other\n    if (this xor other < 0 && q * other != this) q--\n    return q\n}\n\n/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Int.mod(other: Int): Int {\n    val r = this % other\n    return r + (other and (((r xor other) and (r or -r)) shr 31))\n}\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Int.floorDiv(other: Long): Long = \n    this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Int.mod(other: Long): Long = \n    this.toLong().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Long.floorDiv(other: Byte): Long = \n    this.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Long.mod(other: Byte): Byte = \n    this.mod(other.toLong()).toByte()\n\n/** Divides this value by the other
```

value, flooring the result to an integer that is closer to negative infinity.

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline  
fun Long.floorDiv(other:
```

```
Short): Long = \n    this.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of flooring division of this  
value (dividend) by the other value (divisor).\n * The result is either zero or has the same sign as the divisor  
and has the absolute value less than the absolute value of the divisor.\n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline  
fun Long.mod(other: Short): Short = \n    this.mod(other.toLong()).toShort()\n\n/**\n * Divides this value by the other  
value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline  
fun Long.floorDiv(other: Int): Long = \n    this.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of  
flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the  
same sign as the divisor
```

```
and has the absolute value less than the absolute value of the divisor.\n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline  
fun Long.mod(other: Int): Int = \n    this.mod(other.toLong()).toInt()\n\n/**\n * Divides this value by the other value,  
flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline  
fun Long.floorDiv(other: Long): Long {\n    var q = this / other\n    if (this xor other < 0 && q * other != this) q--\n    return q\n}\n\n/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value  
(divisor).\n * The result is either zero or has the same sign as the divisor and has the absolute value less than  
the absolute value of the divisor.\n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline  
fun
```

```
Long.mod(other: Long): Long {\n    val r = this % other\n    return r + (other and (((r xor other) and (r or -r)) shr  
63))\n}\n\n/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value  
(divisor).\n * The result is either zero or has the same sign as the divisor and has the absolute value less than  
the absolute value of the divisor.\n * If the result cannot be represented exactly, it is rounded to the nearest  
representable number. In this case the absolute value of the result can be less than or equal to the absolute value of  
the divisor.\n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline  
fun Float.mod(other: Float): Float {\n    val r = this % other\n    return if (r != 0.0.toFloat() && r.sign != other.sign) r  
+ other else r\n}\n\n/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value  
(divisor).\n * The result is either zero
```

```
or has the same sign as the divisor and has the absolute value less than the absolute value of the divisor.\n * If  
the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute  
value of the result can be less than or equal to the absolute value of the divisor.\n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline  
fun Float.mod(other: Double): Double = \n    this.toDouble().mod(other)\n\n/**\n * Calculates the remainder of  
flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the  
same sign as the divisor and has the absolute value less than the absolute value of the divisor.\n * If the result  
cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of  
the result can be less than or equal to the absolute value of the divisor.\n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic  
inline fun Double.mod(other: Float): Double = \n    this.mod(other.toDouble())\n\n/**\n * Calculates the remainder  
of flooring division of this value (dividend) by the other value (divisor).\n * The result is either zero or has the  
same sign as the divisor and has the absolute value less than the absolute value of the divisor.\n * If the result  
cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of
```

the result can be less than or `_equal to_` the absolute value of the divisor.

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline  
fun Double.mod(other: Double): Double {\n    val r = this % other\n    return if (r != 0.0 && r.sign != other.sign) r +  
    other else r\n}\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
```

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```
*\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\n\n/**\n * Returns a hash code value for the object or  
zero if the object is `null`.\n * @see Any.hashCode\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline  
fun Any?.hashCode(): Int = this?.hashCode() ?: 0\n\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin  
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be  
found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Represents a version of the Kotlin standard  
library.\n * [major], [minor] and [patch] are integer components of a version,\n * they must be non-negative and  
not greater than 255 ([MAX_COMPONENT_VALUE]).\n * @constructor Creates a version from all three  
components.\n */\n@SinceKotlin("1.1")\npublic class KotlinVersion(val major: Int, val minor: Int, val patch:  
Int) : Comparable<KotlinVersion> {\n    /**\n     * Creates a version from [major] and [minor] components, leaving  
[patch] component zero.\n     */\n    public constructor(major: Int, minor: Int) : this(major, minor, 0)\n\n    private val  
version = versionOf(major, minor, patch)\n\n    private fun versionOf(major: Int, minor: Int, patch: Int): Int {\n        require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in  
0..MAX_COMPONENT_VALUE) {\n            "Version components are out of range: $major.$minor.$patch"\n        }\n        return major.shl(16) + minor.shl(8) + patch\n    }\n\n    /**\n     * Returns the string representation of this  
version.\n     */\n    override fun toString(): String = "$major.$minor.$patch"\n\n    override fun equals(other:  
Any?): Boolean {\n        if (this === other) return true\n        val otherVersion = (other as? KotlinVersion) ?: return  
false\n        return this.version == otherVersion.version\n    }\n\n    override  
fun hashCode(): Int = version\n\n    override fun compareTo(other: KotlinVersion): Int = version - other.version\n\n    /**\n     * Returns `true` if this version is not less than the version specified\n     * with the provided [major] and  
[minor] components.\n     */\n    public fun isAtLeast(major: Int, minor: Int): Boolean = // this.version >=  
versionOf(major, minor, 0) || (this.major > major || (this.major == major &&  
this.minor >=  
minor))\n\n    /**\n     * Returns `true` if this version is not less than the version specified\n     * with the provided  
[major], [minor] and [patch] components.\n     */\n    public fun isAtLeast(major: Int, minor: Int, patch: Int): Boolean  
= // this.version >= versionOf(major, minor, patch) || (this.major > major || (this.major == major &&  
(this.minor > minor || this.minor == minor &&  
this.patch >= patch))\n\n    companion object {\n        /**\n         * Maximum value a version  
component can have, a constant value 255.\n         */\n        // NOTE: Must be placed before CURRENT because its  
initialization requires this field being initialized in JS\n        public const val MAX_COMPONENT_VALUE =  
255\n\n        /**\n         * Returns the current version of the Kotlin standard library.\n         */\n        @kotlin.jvm.JvmField\n        public val CURRENT: KotlinVersion = KotlinVersionCurrentValue.get()\n    }\n\n    // this class is ignored during classpath normalization when considering whether to recompile dependencies  
in Kotlin build\n    private object KotlinVersionCurrentValue {\n        @kotlin.jvm.JvmStatic\n        fun get():  
KotlinVersion = KotlinVersion(1, 9, 10) // value is written here automatically during build\n    }\n\n", /*\n * Copyright  
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed  
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("LateinitKt")\n@file:Suppress("unused")\n\npackage  
kotlin\n\nimport kotlin.internal.InlineOnly\nimport kotlin.internal.AccessibleLateinitPropertyLiteral\nimport  
kotlin.reflect.KProperty0\n\n/**\n * Returns `true` if this lateinit property  
has been assigned a value, and `false`  
otherwise.\n * Cannot be used in an inline function, to avoid binary compatibility issues.\n */\n@SinceKotlin("1.2")\n@InlineOnly\ninline val @receiver:AccessibleLateinitPropertyLiteral  
KProperty0<*>.isInitialized: Boolean\n    get() = throw NotImplementedError("Implementation is  
intrinsic")\n\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
```

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```

*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("NumbersKt")\npackage kotlin\n\n/**\n *
Counts the number of set bits in the binary representation of this [Int] number.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
expect fun Int.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in
the binary representation of this [Int] number.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that are zero in
the binary representation of this [Int] number.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [Int] number,\n * or zero, if this number is zero.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.takeHighestOneBit(): Int\n\n/**\n * Returns a number having a single bit set in the position of the least
significant set
bit of this [Int] number,\n * or zero, if this number is zero.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.takeLowestOneBit(): Int\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified
[bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least
significant bits on the right side.\n * Rotating the number left by a negative bit count is the same as rotating it
right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple
of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) ==
number.rotateLeft(n % 32)`\n
*\n\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.rotateLeft(bitCount: Int): Int\n\n/**\n * Rotates the binary representation of this [Int] number right by the
specified [bitCount] number of bits.\n
* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left
side.\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit
count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32)
returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n
*\n\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.rotateRight(bitCount: Int): Int\n\n/**\n * Counts the number of set bits in the binary representation of this
[Long] number.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect
fun Long.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [Long] number.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
expect fun Long.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that
are zero in the binary representation of this [Long] number.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [Long] number,\n * or zero, if this number is zero.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.takeHighestOneBit(): Long\n\n/**\n * Returns a number having a single bit set in the position of the least
significant set bit of this [Long] number,\n * or zero, if this number is zero.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.takeLowestOneBit(): Long\n\n/**\n * Rotates the binary representation of this [Long] number left by the
specified [bitCount] number

```

of bits.\n \* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n \* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n \* `number.rotateLeft(-n) == number.rotateRight(n)`\n \* Rotating by a multiple of [Long.SIZE\_BITS] (64) returns the same number, or more generally\n \* `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.rotateLeft(bitCount: Int): Long\n\n**\n * Rotates the binary representation of this [Long] number right by the
specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number
as the most significant bits on the left side.\n * Rotating the number right by a negative bit count is the same as
rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n
*\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n *
`number.rotateRight(n) == number.rotateRight(n % 64)`\n
```

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.rotateRight(bitCount: Int): Long\n\n**\n * Counts the number of set bits in the binary representation of this
[Byte] number.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()\n\n**\n * Counts the number of
consecutive most significant bits that are zero in the binary representation of this [Byte] number.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS -
Byte.SIZE_BITS)\n\n**\n * Counts the number of consecutive least significant
bits that are zero in the binary representation of this [Byte] number.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()\n\n**\n * Returns a
number having a single bit set in the position of the most significant set bit of this [Byte] number,\n * or zero, if this
number is zero.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()\n\n**\n * Returns a
number having a single bit set in the position of the least significant set bit of this [Byte] number,\n * or zero, if this
number is zero.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()\n\n**\n
```

\* Rotates the binary representation of this [Byte] number left by the specified [bitCount] number of bits.\n \* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n

\* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n \* `number.rotateLeft(-n) == number.rotateRight(n)`\n \* Rotating by a multiple of [Byte.SIZE\_BITS] (8) returns the same number, or more generally\n \* `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
Byte.rotateLeft(bitCount: Int): Byte =\n (toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and
7))).toByte()\n\n**\n * Rotates the binary representation of this [Byte] number right by the specified [bitCount]
number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most
significant
bits on the left side.\n * Rotating the number right by a negative bit count is the same as rotating it left by the
negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of
[Byte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateRight(n) ==
number.rotateRight(n % 8)`\n
```

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
Byte.rotateRight(bitCount: Int): Byte =\n (toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and
```

```

7)).toByte()\n\n/**\n * Counts the number of set bits in the binary representation of this [Short] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()\n\n/**\n * Counts the number of
consecutive most significant bits that are zero in the binary representation of this [Short] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c
inline fun Short.countLeadingZeroBits(): Int =\n (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS
- Short.SIZE_BITS)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary
representation of this [Short] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()\n\n/**\n * Returns a
number having a single bit set in the position of the most significant set bit of this [Short] number,\n * or zero, if this
number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\n\n/**\n *
Returns a number having a single bit set in
the position of the least significant set bit of this [Short] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\n\n/**\n * Rotates the binary
representation of this [Short] number left by the specified [bitCount] number of bits.\n * The most significant bits
pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the
number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-
n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or
more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
Short.rotateLeft(bitCount: Int): Short
=\n (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()\n\n/**\n *
Rotates the binary representation of this [Short] number right by the specified [bitCount] number of bits.\n * The
least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n
*\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns
the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
Short.rotateRight(bitCount: Int): Short =\n (toInt().shl(16 - (bitCount and 15)) or (toInt() and
0xFFFF).ushr(bitCount and 15)).toShort()\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@npackage kotlin\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\n\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.2")\n@Suppress("IN
VISIBLE_MEMBER", "INVISIBLE_REFERENCE")\npublic inline fun <R> suspend(noinline block: suspend ()
-> R): suspend () -> R = block\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n@file:kotlin.jvm.JvmName("TuplesKt")\n\npackage kotlin\n\n/**\n *
Represents a generic pair of two values.\n *\n * There is no meaning attached to values in this class, it can be used
for any purpose.\n * Pair exhibits value semantics, i.e. two pairs are equal if both components are equal.\n *\n * An
example of decomposing it into values:\n * @sample
samples.misc.Tuples.pairDestructuring\n *\n * @param A type of the first value.\n * @param B type of the second
value.\n * @property first First value.\n * @property second Second value.\n * @constructor Creates a new instance

```



```

of Pair.\n */\npublic data class Pair<out A, out B>(\n    public val first: A,\n    public val second: B\n) : Serializable
{\n\n    /**\n     * Returns string representation of the [Pair] including its [first] and [second] values.\n     */\n\n    public override fun toString(): String = "$first, $second"\n\n    /**\n     * Creates a tuple of type [Pair] from this and [that].\n     * This can be useful for creating [Map] literals with less noise, for example:\n     * @sample\n     samples.collections.maps.instantiation.mapFromPairs\n     */\n\n    public infix fun <A, B> A.to(that: B): Pair<A, B> =\n    Pair(this, that)\n\n    /**\n     * Converts this pair into a list.\n     * @sample\n     samples.misc.tuples.pairToList\n     */\n\n    public fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\n\n    /**\n     * Represents a triad of values\n     * There is no meaning attached to values in this class, it can be used for any purpose.\n     * Triple exhibits value semantics, i.e. two triples are equal if all three components are equal.\n     * An example of decomposing it into values:\n     * @sample\n     samples.misc.tuples.tripleDestructuring\n     * @param A type of the first value.\n     * @param B type of the second value.\n     * @param C type of the third value.\n     * @property first First value.\n     * @property second Second value.\n     * @property third Third value.\n     */\n\n    public data class Triple<out A, out B, out C>(\n        public val first: A,\n        public val second: B,\n        public val third: C\n) : Serializable
{\n\n    /**\n     * Returns string representation of the [Triple] including its [first], [second] and [third] values.\n     */\n\n    public override fun toString(): String = "$first, $second, $third"\n\n    /**\n     * Converts this triple into a list.\n     * @sample\n     samples.misc.tuples.tripleToList\n     */\n\n    public fun <T> Triple<T, T, T>.toList(): List<T> = listOf(first, second, third)\n\n    /**\n     * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n     */\n\n    // Auto-generated file. DO NOT EDIT!\n\n    package kotlin.ranges\n\n    import kotlin.internal.*\n\n    /**\n     * A range of values of type `UInt`.\n     */\n\n    @SinceKotlin("1.5")\n    @WasExperimental(ExperimentalUnsignedTypes::class)\n    public class UIntRange(start: UInt, endInclusive: UInt) : UIntProgression(start, endInclusive, 1), ClosedRange<UInt>, OpenEndRange<UInt> {\n\n        override val start: UInt get() = first\n        override val endInclusive: UInt get() = last\n\n        @Deprecated("Can throw an exception when it's impossible to represent the value with UInt type, for example, when the range includes MAX_VALUE. It's recommended to use 'endInclusive' property that doesn't throw.")\n        @SinceKotlin("1.9")\n        @WasExperimental(ExperimentalStdlibApi::class)\n        override val endExclusive: UInt get() {\n            if (last == UInt.MAX_VALUE) error("Cannot return the exclusive upper bound of a range that includes MAX_VALUE.")\n            return last + 1u\n        }\n\n        override fun contains(value: UInt): Boolean = first <= value && value <= last\n\n        /**\n         * Checks if the range is empty.\n         * The range is empty if its start value is greater than the end value.\n         */\n\n        override fun isEmpty(): Boolean = first > last\n\n        override fun equals(other: Any?): Boolean =\n            other is UIntRange && (isEmpty() && other.isEmpty()) ||\n                first == other.first && last == other.last\n\n        override fun hashCode(): Int =\n            if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\n\n        override fun toString(): String = "$first..$last"\n\n        companion object {\n            /**\n             * An empty range of values of type UInt.\n             */\n\n            public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE, UInt.MIN_VALUE)\n        }\n\n        /**\n         * A progression of values of type `UInt`.\n         */\n\n        @SinceKotlin("1.5")\n        @WasExperimental(ExperimentalUnsignedTypes::class)\n        public open class UIntProgression\n            internal constructor(\n                start: UInt,\n                endInclusive: UInt,\n                step: Int\n) : Iterable<UInt> {\n\n            init {\n                if (step == 0.toInt()) throw kotlin.IllegalArgumentException("Step must be non-zero.")\n                if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to avoid overflow on negation.")\n            }\n\n            /**\n             * The first element in the progression.\n             */\n\n            public val first: UInt = start\n\n            /**\n             * The last element in the progression.\n             */\n\n            public val last: UInt =\n                getProgressionLastElement(start, endInclusive, step)\n\n            /**\n             * The step of the progression.\n             */\n\n            public val step: Int = step\n\n            final override fun iterator(): Iterator<UInt> = UIntProgressionIterator(first, last, step)\n\n            /**\n             * Checks if the progression is empty.\n             * Progression with a positive step is empty if its first element is greater than the last element.\n             * Progression with a negative step is empty if its first element is less than the last element.\n             */\n\n            public open fun isEmpty(): Boolean =\n                if (step > 0) first > last else first < last\n\n            override fun equals(other: Any?): Boolean =\n                other is UIntProgression && (isEmpty() && other.isEmpty()) ||\n                    first == other.first && last == other.last && step == other.step\n\n            override fun

```

```

hashCode(): Int =\n    if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step.toInt())\n\n    override fun
toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"
companion
object {\n    /**\n     * Creates UIntProgression within the specified bounds of a closed range.\n     * The
progression starts
    with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n
    * In order to go backwards the [step] must be negative.\n     *\n     * [step] must be greater than
`Int.MIN_VALUE` and not equal to zero.\n     *\n     * public fun fromClosedRange(rangeStart: UInt, rangeEnd:
UInt, step: Int): UIntProgression = UIntProgression(rangeStart, rangeEnd, step)\n    }\n}\n\n/**\n * An iterator
over a progression of values of type `UInt`.\n * @property step the number by which the value is incremented on
each step.\n */\n@SinceKotlin("1.3")\nprivate class UIntProgressionIterator(first: UInt, last: UInt, step: Int) :
Iterator<UInt> {\n    private val finalElement = last\n    private var hasNext: Boolean = if (step > 0) first <= last else
first >= last\n    private val step = step.toUInt() // use 2-complement math for negative steps\n    private var next = if
(hasNext) first else finalElement\n\n    override fun hasNext():
Boolean = hasNext\n\n    override fun next(): UInt {\n        val value = next\n        if (value == finalElement) {\n
            if (!hasNext) throw kotlin.NoSuchElementException()\n            hasNext = false\n        } else {\n            next +=
step\n        }\n        return value\n    }\n}\n\n"/**\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\nimport
kotlin.internal.*\n\n/**\n * A range of values of type `ULong`.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic class
ULongRange(start: ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1),
ClosedRange<ULong>, OpenEndRange<ULong> {\n    override val start: ULong get() = first\n    override val
endInclusive: ULong get() = last\n    \n    @Deprecated("Can
throw an exception when it's impossible to represent the value with ULong type, for example, when the range
includes MAX_VALUE. It's recommended to use 'endInclusive' property that doesn't throw.")\n    @SinceKotlin("1.9")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    override val endExclusive:
ULong get() {\n        if (last == ULong.MAX_VALUE) error("Cannot return the exclusive upper bound of a range
that includes MAX_VALUE.")\n        return last + 1u\n    }\n\n    override fun contains(value: ULong): Boolean =
first <= value && value <= last\n\n    /**\n     * Checks if the range is empty.\n     *\n     * The range is empty if its
start value is greater than the end value.\n     */\n    override fun isEmpty(): Boolean = first > last\n\n    override fun
equals(other: Any?): Boolean =\n        other is ULongRange && (isEmpty() && other.isEmpty()) ||\n        first
== other.first && last == other.last)\n\n    override fun hashCode(): Int =\n        if
(isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt())\n\n    override fun
toString(): String = \"$first..$last"\n\n    companion object {\n        /**\n         * An empty range of values of type ULong.
\n         */\n        public val EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE, ULong.MIN_VALUE)\n    }\n}\n\n/**\n * A progression of values of type `ULong`.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic open class
ULongProgression\n\ninternal constructor(\n    start: ULong,\n    endInclusive: ULong,\n    step: Long\n) :
Iterable<ULong> {\n    init {\n        if (step == 0.toLong()) throw kotlin.IllegalArgumentException("Step must be
non-zero.")\n        if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater
than Long.MIN_VALUE to avoid overflow on negation.")\n    }\n\n    /**\n     *\n     * The first element in the
progression.\n     */\n    public val first: ULong = start\n\n    /**\n     *\n     * The last element in the progression.\n     */\n    public val last: ULong = getProgressionLastElement(start,
endInclusive, step)\n\n    /**\n     *\n     * The step of the progression.\n     */\n    public val step: Long = step\n\n    final
override fun iterator(): Iterator<ULong> = ULongProgressionIterator(first, last, step)\n\n    /**\n     *\n     * Checks if the
progression is empty.\n     *\n     * Progression with a positive step is empty if its first element is greater than the last
element.\n     * Progression with a negative step is empty if its first element is less than the last element.\n     */\n    public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n    override fun equals(other: Any?):

```



```

*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public inline fun UInt.takeHighestOneBit(): UInt =
toInt().takeHighestOneBit().toUInt()\n\n/**\n * Returns a number having a single bit set in the position of the least
significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public inline fun UInt.takeLowestOneBit(): UInt =
toInt().takeLowestOneBit().toUInt()\n\n/**\n * Rotates the binary representation of this [UInt] number left by the
specified
[bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least
significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it
right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple
of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) ==
number.rotateLeft(n % 32)`\n
*^@SinceKotlin("1.6")^@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)^@kotlin.internal.InlineOnly^public inline fun UInt.rotateLeft(bitCount: Int):
UInt = toInt().rotateLeft(bitCount).toUInt()\n\n/**\n * Rotates the binary representation of this [UInt] number
right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter
the number as the most significant bits on the left side.\n *\n * Rotating the number right by
a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) ==
number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more
generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n
*^@SinceKotlin("1.6")^@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)^@kotlin.internal.InlineOnly^public inline fun UInt.rotateRight(bitCount: Int):
UInt = toInt().rotateRight(bitCount).toUInt()\n\n/**\n * Counts the number of set bits in the binary representation
of this [ULong] number.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public inline fun ULong.countOneBits(): Int =
toLong().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [ULong] number.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public inline fun ULong.countLeadingZeroBits(): Int =
toLong().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero
in the binary representation of this [ULong] number.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public inline fun ULong.countTrailingZeroBits(): Int =
toLong().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public inline fun ULong.takeHighestOneBit(): ULong =
toLong().takeHighestOneBit().toULong()\n\n/**\n * Returns a number having a single bit set in
the position of the least significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public inline fun ULong.takeLowestOneBit(): ULong =
toLong().takeLowestOneBit().toULong()\n\n/**\n * Rotates the binary representation of this [ULong] number left
by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the
number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the
same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n *
Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\n *
`number.rotateLeft(n) == number.rotateLeft(n % 64)`\n
*^@SinceKotlin("1.6")^@WasExperimental(ExperimentalStdlibApi::class,

```

```

ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong()\n\n/**\n * Rotates
the binary representation of this [ULong] number right by the specified [bitCount] number of bits.\n * The least
significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n *
Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [ULong.SIZE_BITS] (64)
returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n
*\n *\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.rotateRight(bitCount:
Int): ULong = toLong().rotateRight(bitCount).toULong()\n\n/**\n * Counts the number of set bits
in the binary representation of this [UByte] number.\n
*\n *\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UByte.countOneBits(): Int =
toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [UByte] number.\n
*\n *\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UByte.countLeadingZeroBits(): Int =
toByte().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in
the binary representation of this [UByte] number.\n
*\n *\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UByte.countTrailingZeroBits(): Int =
toByte().countTrailingZeroBits()\n\n/**\n * Returns
a number having a single bit set in the position of the most significant set bit of this [UByte] number,\n * or zero, if
this number is zero.\n *\n *\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UByte.takeHighestOneBit(): UByte
= toInt().takeHighestOneBit().toUByte()\n\n/**\n * Returns a number having a single bit set in the position of the
least significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n
*\n *\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UByte.takeLowestOneBit(): UByte =
toInt().takeLowestOneBit().toUByte()\n\n/**\n * Rotates the binary representation of this [UByte] number left by
the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the
number as the least significant bits on
the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated
bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of
[UByte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateLeft(n) ==
number.rotateLeft(n % 8)`\n *\n *\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun UByte.rotateLeft(bitCount:
Int): UByte = toByte().rotateLeft(bitCount).toUByte()\n\n/**\n * Rotates the binary representation of this [UByte]
number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side
reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit
count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n
*\n *\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n *
`number.rotateRight(n) == number.rotateRight(n % 8)`\n
*\n *\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun UByte.rotateRight(bitCount:
Int): UByte = toByte().rotateRight(bitCount).toUByte()\n\n/**\n * Counts the number of set bits in the binary
representation of this [UShort] number.\n

```

```

*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countOneBits(): Int =
toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [UShort] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countLeadingZeroBits():
Int = toShort().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are
zero in the binary representation of this [UShort] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countTrailingZeroBits(): Int
= toShort().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeHighestOneBit(): UShort
= toInt().takeHighestOneBit().toUShort()\n\n/**\n * Returns a number having a single bit set in the position of the
least significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeLowestOneBit(): UShort
= toInt().takeLowestOneBit().toUShort()\n\n/**\n * Rotates the binary representation of this [UShort] number left
by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the
number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the
same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\n *
`number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateLeft(bitCount:
Int): UShort = toShort().rotateLeft(bitCount).toUShort()\n\n/**\n * Rotates the binary representation of this [UShort] number right by the specified [bitCount] number of bits.\n *
The least significant bits pushed out from the right side reenter the number as the most significant bits on the left
side.\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit
count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [UShort.SIZE_BITS]
(16) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateRight(bitCount:
Int): UShort = toShort().rotateRight(bitCount).toUShort()\n\n"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache
2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n// (a - b) mod
c\nprivate fun differenceModulo(a: UInt, b: UInt, c: UInt): UInt {\n    val ac = a % c\n    val bc = b % c\n    return if
(ac >= bc) ac - bc else ac - bc + c\n}\n\nprivate fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {\n
    val ac = a % c\n    val bc = b % c\n    return if (ac >= bc) ac - bc else ac - bc + c\n}\n\n/**\n * Calculates the final
element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from
[start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No
validation on passed parameters is performed. The given parameters should satisfy the condition:\n * - either
`step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the
progression\n * @param end ending bound for the progression\n * @param
step increment, or difference of successive elements in the progression\n * @return the final element of the
progression\n * @suppress\n */\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun
getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt = when {\n    step > 0 -> if (start >= end) end else

```

```

end - differenceModulo(end, start, step.toUInt())\n  step < 0 -> if (start <= end) end else end +
differenceModulo(start, end, (-step).toUInt())\n  else -> throw kotlin.IllegalArgumentException("Step is
zero.\")\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the
progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case
of a negative\n * [step].\n * No validation on passed parameters is performed. The given parameters should
satisfy the condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n *\n *
@param
start first element of the progression\n * @param end ending bound for the progression\n * @param step increment,
or difference of successive elements in the progression\n * @return the final element of the progression\n *
@suppress\n */\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun getProgressionLastElement(start: ULong,
end: ULong, step: Long): ULong = when {\n  step > 0 -> if (start >= end) end else end - differenceModulo(end,
start, step.toULong())\n  step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-
step).toULong())\n  else -> throw kotlin.IllegalArgumentException("Step is zero.\")\n}\n", "/*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmName("UStringsKt") // string representation of unsigned numbers\n\npackage
kotlin.text\n\n/**\n * Returns a string representation
of this [Byte] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid
radix for number to string conversion.\n
*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly
\npublic /*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string
representation of this [Short] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix]
is not a valid radix for number to string conversion.\n
*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly
\npublic /*inline*/ fun UShort.toString(radix: Int): String = this.toInt().toString(radix)\n\n\n/**\n * Returns a string
representation of this [Int] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is
not a valid radix for number to string conversion.\n
*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly
\npublic
/*inline*/ fun UInt.toString(radix: Int): String = this.toLong().toString(radix)\n\n/**\n * Returns a string
representation of this [Long] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix]
is not a valid radix for number to string conversion.\n
*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))\n\n\n/**\n * Parses the string
as a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n
*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUByte():
UByte = toUByteOrNull() ?: numberFormatException(this)\n\n\n/**\n * Parses the string as a signed [UByte] number and
returns the result.\n * @throws NumberFormatException if the string
is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix
for string to number conversion.\n
*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUByte(radix: Int): UByte = toUByteOrNull(radix) ?: numberFormatException(this)\n\n\n/**\n * Parses the
string as a [UShort] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n
*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUShort():
UShort = toUShortOrNull() ?: numberFormatException(this)\n\n\n/**\n * Parses the string as a [UShort] number and
returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n *

```





```

(limitBeforeMul == limitForMaxRadix) {\n        limitBeforeMul = limit / uradix\n\n        if (result >
limitBeforeMul) {\n            return null\n        }\n    } else {\n        return null\n    }\n}\n\n    result *= uradix\n\n    val beforeAdding = result\n    result += digit.toUInt()\n    if (result <
beforeAdding)\n        return null // overflow has happened\n    }\n\n    return result\n}\n\n/**\n * Parses the string as an [ULong] number
and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toULongOrNull(): ULong? = toULongOrNull(radix = 10)\n\n/**\n * Parses the string as an [ULong] number
and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*/\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toULongOrNull(radix: Int): ULong? {\n    checkRadix(radix)\n\n    val length = this.length\n    if (length ==
0) return null\n\n    val limit: ULong = ULong.MAX_VALUE\n    val start: Int\n    val firstChar = this[0]\n    if
(firstChar < '0') {\n        if (length == 1 || firstChar
!= '+') return null\n        start = 1\n    } else {\n        start = 0\n    }\n\n    val limitForMaxRadix =
512409557603043100uL // limit / 36\n    var limitBeforeMul = limitForMaxRadix\n    val uradix =
radix.toULong()\n    var result = 0uL\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n\n
if (digit < 0) return null\n        if (result > limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n
                limitBeforeMul = limit / uradix\n\n                if (result > limitBeforeMul) {\n                    return null\n
                }\n            } else {\n                return null\n            }\n        }\n\n        result *= uradix\n\n        val beforeAdding =
result\n        result += digit.toUInt()\n        if (result < beforeAdding) return null // overflow has happened\n    }\n\n
return result\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
*/\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\npackage kotlin\n\nimport
kotlin.annotation.AnnotationTarget\n\nimport kotlin.internal.RequireKotlin\n\nimport
kotlin.internal.RequireKotlinVersionKind\n\n/**\n * Marks the API that is dependent on the experimental unsigned
types, including those types themselves.\n
*/\n * Usages of such API will be reported as warnings unless an explicit
opt-in with\n * the [OptIn] annotation, e.g. `@OptIn(ExperimentalUnsignedTypes::class)`,\n * or with the
`-opt-in=kotlin.ExperimentalUnsignedTypes` compiler option is given.\n
*/\n * It's recommended to propagate the experimental status to the API that depends on unsigned types by
annotating it with this annotation.\n
*/\n\n@RequiresOptIn(level = RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Target(CLASS,
ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER,
CONSTRUCTOR,
FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER,
TYPEALIAS)\n@Retention(AnnotationRetention.BINARY)\npublic annotation class
ExperimentalUnsignedTypes\n\n", "/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n
*/\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MathKt")\n\npackage
kotlin.math\n\n\n// constants, can't use them from nativeMath as they are not constants there\n\n/**\n * Ratio of the
circumference of a circle to its diameter, approximately 3.14159. */\n\n@SinceKotlin("1.2")\npublic const val PI:
Double = 3.141592653589793\n\n/**\n * Base of the natural logarithms, approximately 2.71828. */\n\n@SinceKotlin("1.2")\npublic const val E: Double = 2.718281828459045\n\n// region =====\n\nDouble Math =====\n\n\n/**\n * Computes the sine of the angle [x]
given in radians.\n
*/\n *
Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n
*/\n\n@SinceKotlin("1.2")\npublic expect fun sin(x: Double):
Double\n\n/**\n * Computes the cosine of the angle [x] given in radians.\n
*/\n *
Special cases:\n * - `cos(NaN|+Inf|-

```



[log10] and [log2].  
`public expect fun log(x: Double, base: Double): Double`  
 Computes the natural logarithm (base 'E') of the value [x].  
 Special cases:  
`ln(NaN)` is `NaN`  
`ln(x)` is `NaN` when `x < 0.0`  
`ln(+Inf)` is `+Inf`  
`ln(0.0)` is `-Inf`

`public expect fun ln(x: Double): Double`  
 Computes the common logarithm (base 10) of the value [x].  
 @see [ln] function for special cases.

`public expect fun log10(x: Double): Double`  
 Computes the binary logarithm (base 2) of the value [x].  
 @see [ln] function for special cases.

`public expect fun log2(x: Double): Double`  
 Computes `ln(x + 1)`.  
 This function can be implemented to produce more precise result for [x] near zero.  
 Special cases:  
`ln1p(NaN)` is `NaN`  
`ln1p(x)` is `NaN` where `x < -1.0`  
`ln1p(-1.0)` is `-Inf`  
`ln1p(+Inf)` is `+Inf`  
 @see [ln] function  
 @see [expm1] function

`public expect fun ln1p(x: Double): Double`  
 Rounds the given value [x] to an integer towards positive infinity.  
 @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.  
 Special cases:  
`ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`public expect fun ceil(x: Double): Double`  
 Rounds the given value [x] to an integer towards negative infinity.  
 @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.  
 Special cases:  
`floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`public expect fun floor(x: Double): Double`  
 Rounds the given value [x] to an integer towards zero.  
 @return the value [x] having its fractional part truncated.  
 Special cases:  
`truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`public expect fun truncate(x: Double): Double`  
 Rounds the given value [x] towards the closest integer with ties rounded towards even integer.  
 Special cases:  
`round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`public expect fun round(x: Double): Double`  
 Returns the absolute value of the given value [x].  
 Special cases:  
`abs(NaN)` is `NaN`  
 @see absoluteValue extension property for [Double]

`public expect fun abs(x: Double): Double`  
 Returns the sign of the given value [x]:  
`-1.0` if the value is negative,  
`0.0` if the value is zero,  
`1.0` if the value is positive  
 Special case:  
`sign(NaN)` is `NaN`

`public expect fun sign(x: Double): Double`  
 Returns the smaller of two values.  
 If either value is `NaN`, then the result is `NaN`.

`public expect fun min(a: Double, b: Double): Double`  
 Returns the greater of two values.  
 If either value is `NaN`, then the result is `NaN`.

`public expect fun max(a: Double, b: Double): Double`  
 Returns the cube root of [x]. For any `x`, `cbrt(-x) == -cbrt(x)`; that is, the cube root of a negative value is the negative of the cube root of that value's magnitude.  
 Special cases:  
 - If the argument is `NaN`, then the result is `NaN`.  
 - If the argument is infinite, then the result is an infinity with the same sign as the argument.  
 - If the argument is zero, then the result is a zero with the same sign as the argument.

`public expect fun cbrt(x: Double): Double`  
 Raises this value to the power [x].  
 Special cases:  
`b.pow(0.0)` is `1.0`  
`b.pow(1.0) == b`  
`b.pow(NaN)` is `NaN`  
`NaN.pow(x)` is `NaN` for `x != 0.0`  
`b.pow(Inf)` is `NaN` for `abs(b) == 1.0`  
`b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer

`public expect fun Double.pow(x: Double): Double`  
 Raises this value to the integer power [n].  
 See the other overload of [pow] for details.

`public expect fun Double.pow(n: Int): Double`  
 Returns the absolute value of this value.  
 Special cases:  
`NaN.absoluteValue` is `NaN`  
 @see abs function

`public expect val Double.absoluteValue: Double`  
 Returns the sign of this value:  
`-1.0` if the value is negative,  
`0.0` if the value is zero,  
`1.0` if the value is positive  
 Special case:  
`NaN.sign` is `NaN`

`public expect val Double.sign: Double`  
 Returns this value with the sign bit same as of the [sign] value.  
 If [sign] is `NaN` the sign



```

*^@SinceKotlin("1.2")\npublic expect fun cosh(x: Float): Float\n\n * Computes the hyperbolic cosine of the value [x].\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `1.0`\n * - `tanh(-Inf)` is `-1.0`\n\n *^@SinceKotlin("1.2")\npublic expect fun tanh(x: Float): Float\n\n * Computes the inverse hyperbolic sine of the value [x].\n * The returned value is `y` such that `sinh(y) == x`.\n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * - `asinh(-Inf)` is `-Inf`\n\n *^@SinceKotlin("1.2")\npublic expect fun asinh(x: Float): Float\n\n * Computes the inverse hyperbolic cosine of the value [x].\n * The returned value is positive `y` such that `cosh(y) == x`.\n * Special cases:\n * - `acosh(NaN)` is `NaN`\n * - `acosh(x)` is `NaN` when `x < 1`\n * - `acosh(+Inf)` is `+Inf`\n\n *^@SinceKotlin("1.2")\npublic expect fun acosh(x: Float): Float\n\n * Computes the inverse hyperbolic tangent of the value [x].\n * The returned value is `y` such that `tanh(y) == x`.\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\n * - `tanh(1.0)` is `+Inf`\n * - `tanh(-1.0)` is `-Inf`\n\n *^@SinceKotlin("1.2")\npublic expect fun atanh(x: Float): Float\n\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n * Special cases:\n * - returns `+Inf` if any of arguments is infinite\n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n\n *^@SinceKotlin("1.2")\npublic expect fun hypot(x: Float, y: Float): Float\n\n * Computes the positive square root of the value [x].\n * Special cases:\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n\n *^@SinceKotlin("1.2")\npublic expect fun sqrt(x: Float): Float\n\n * Computes Euler's number `e` raised to the power of the value [x].\n * Special cases:\n * - `exp(NaN)` is `NaN`\n * - `exp(+Inf)` is `+Inf`\n * - `exp(-Inf)` is `0.0`\n\n *^@SinceKotlin("1.2")\npublic expect fun exp(x: Float): Float\n\n * Computes `exp(x) - 1`.\n * This function can be implemented to produce more precise result for [x] near zero.\n * Special cases:\n * - `expm1(NaN)` is `NaN`\n * - `expm1(+Inf)` is `+Inf`\n * - `expm1(-Inf)` is `-1.0`\n * @see [exp] function.\n\n *^@SinceKotlin("1.2")\npublic expect fun expm1(x: Float): Float\n\n * Computes the logarithm of the value [x] to the given [base].\n * Special cases:\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n * - `log(+Inf, +Inf)` is `NaN`\n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n\n *^@SinceKotlin("1.2")\npublic expect fun log(x: Float, base: Float): Float\n\n * Computes the natural logarithm (base `E`) of the value [x].\n * Special cases:\n * - `ln(NaN)` is `NaN`\n * - `ln(x)` is `NaN` when `x < 0.0`\n * - `ln(+Inf)` is `+Inf`\n * - `ln(0.0)` is `-Inf`\n\n *^@SinceKotlin("1.2")\npublic expect fun ln(x: Float): Float\n\n * Computes the common logarithm (base 10) of the value [x].\n * @see [ln] function for special cases.\n\n *^@SinceKotlin("1.2")\npublic expect fun log10(x: Float): Float\n\n * Computes the binary logarithm (base 2) of the value [x].\n * @see [ln] function for special cases.\n\n *^@SinceKotlin("1.2")\npublic expect fun log2(x: Float): Float\n\n * Computes `ln(x + 1)`.\n * This function can be implemented to produce more precise result for [x] near zero.\n * Special cases:\n * - `ln1p(NaN)` is `NaN`\n * - `ln1p(x)` is `NaN` where `x < -1.0`\n * - `ln1p(-1.0)` is `-Inf`\n * - `ln1p(+Inf)` is `+Inf`\n * @see [ln] function\n * @see [expm1] function\n\n *^@SinceKotlin("1.2")\npublic expect fun ln1p(x: Float): Float\n\n * Rounds the given value [x] to an integer towards positive infinity.\n * @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n\n *^@SinceKotlin("1.2")\npublic expect fun ceil(x: Float): Float\n\n * Rounds the given value [x] to an integer towards negative infinity.\n * @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n\n *^@SinceKotlin("1.2")\npublic expect fun floor(x: Float): Float\n\n * Rounds the given value [x] to an integer towards zero.\n * @return the value [x] having its fractional part truncated.\n * Special cases:\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n\n *^@SinceKotlin("1.2")\npublic expect fun truncate(x: Float): Float\n\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.

```

\* Special cases:  
`round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.  
`SinceKotlin("1.2")` public expect fun `round(x: Float): Float`  
Returns the absolute value of the given value `[x]`.  
Special cases:  
`abs(NaN)` is `NaN`  
@see `absoluteValue` extension property for `[Float]`  
`SinceKotlin("1.2")` public expect fun `abs(x: Float): Float`  
Returns the sign of the given value `[x]`:  
`-1.0` if the value is negative,  
`0` if the value is zero,  
`1.0` if the value is positive  
Special case:  
`sign(NaN)` is `NaN`  
`SinceKotlin("1.2")` public expect fun `sign(x: Float): Float`  
Returns the smaller of two values.  
If either value is `NaN`, then the result is `NaN`.  
`SinceKotlin("1.2")` public expect fun `min(a: Float, b: Float): Float`  
Returns the greater of two values.  
If either value is `NaN`, then the result is `NaN`.  
`SinceKotlin("1.2")` public expect fun `max(a: Float, b: Float): Float`  
Returns the cube root of `[x]`. For any `x`, `cbrt(-x) == -cbrt(x)`; that is, the cube root of a negative value is the negative of the cube root of that value's magnitude. Special cases:  
If the argument is `NaN`, then the result is `NaN`.  
If the argument is infinite, then the result is an infinity with the same sign as the argument.  
If the argument is zero, then the result is a zero with the same sign as the argument.  
`SinceKotlin("1.8")` `WasExperimental(ExperimentalStdlibApi::class)` public expect fun `cbrt(x: Float): Float`  
// extensions  
Raises this value to the power `[x]`.  
Special cases:  
`b.pow(0.0)` is `1.0`  
`b.pow(1.0) == b`  
`b.pow(NaN)` is `NaN`  
`NaN.pow(x)` is `NaN` for `x != 0.0`  
`b.pow(Inf)` is `NaN` for `abs(b) == 1.0`  
`b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer  
`SinceKotlin("1.2")` public expect fun `Float.pow(x: Float): Float`  
Raises this value to the integer power `[n]`.  
See the other overload of `[pow]` for details.  
`SinceKotlin("1.2")` public expect fun `Float.pow(n: Int): Float`  
Returns the absolute value of this value.  
Special cases:  
`NaN.absoluteValue` is `NaN`  
@see `abs` function  
`SinceKotlin("1.2")` public expect val `Float.absoluteValue: Float`  
Returns the sign of this value:  
`-1.0` if the value is negative,  
`0` if the value is zero,  
`1.0` if the value is positive  
Special case:  
`NaN.sign` is `NaN`  
`SinceKotlin("1.2")` public expect val `Float.sign: Float`  
Returns this value with the sign bit same as of the `[sign]` value.  
If `[sign]` is `NaN` the sign of the result is undefined.  
`SinceKotlin("1.2")` public expect fun `Float.withSign(sign: Float): Float`  
Returns this value with the sign bit same as of the `[sign]` value.  
`SinceKotlin("1.2")` public expect fun `Float.withSign(sign: Int): Float`  
Rounds this `[Float]` value to the nearest integer and converts the result to `[Int]`.  
Ties are rounded towards positive infinity.  
Special cases:  
`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`  
`x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`  
@throws `IllegalArgumentException` when this value is `NaN`  
`SinceKotlin("1.2")` public expect fun `Float.roundToInt(): Int`  
Rounds this `[Float]` value to the nearest integer and converts the result to `[Long]`.  
Ties are rounded towards positive infinity.  
Special cases:  
`x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`  
`x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`  
@throws `IllegalArgumentException` when this value is `NaN`  
`SinceKotlin("1.2")` public expect fun `Float.roundToLong(): Long`  
// endregion  
===== `Integer Math` =====  
Returns the absolute value of the given value `[n]`.  
Special cases:  
`abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow  
@see `absoluteValue` extension property for `[Int]`  
`SinceKotlin("1.2")` public expect fun `abs(n: Int): Int`  
Returns the smaller of two values.  
`SinceKotlin("1.2")` public expect fun `min(a: Int, b: Int): Int`  
Returns the greater of two values.  
`SinceKotlin("1.2")` public expect fun `max(a: Int, b: Int): Int`  
Returns the absolute value of this value.  
Special cases:  
`Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow  
@see `abs` function  
`SinceKotlin("1.2")` public expect val `Int.absoluteValue: Int`  
Returns the sign of this value:  
`-1` if the value is negative,  
`0` if the value is zero,  
`1` if the value is positive  
`SinceKotlin("1.2")` public expect val `Int.sign: Int`



E, YAAW, SAAW, KAAG, CAAS, CAAP, MAAO, KAAI, c; G; EAGxE, MAAmB, CAAZ, WAAY, YAAW, CAACA, CAAD, E; IAC1B, OAAO, CAAE, YAAW, SAAU, IAAG, CAAS, CAAP, MAAO, KAAI, c; G; EAGID, MAAoB, CAAb, YAAa, YAAW, CAACA, CAAD, E; IAC3B, OAAO, CAAE, YAAW, U; G; EAGxB, MAAmB, CAAZ, WAAY, YAAW, CAACA, CAAD, E; IAC1B, OAAO, CAAE, YAAW, WAAY, IAAG, CAAS, CAAP, MAAO, KAAI, W; G; EAGpD, MAAkB, CAAX, UAAW, YAAW, CAACA, CAAD, E; IACzB, OAAO, CAAE, YAAW, U; G; EAGxB, MAAoB, CAAb, YAAa, YAAW, CAACA, CAAD, E; IAC3B, OAAO, CAAE, YAAW, Y; G; EAGxB, MAAqB, CAAd, aAAc, YAAW, CAACA, CAAD, E; IAC5B, OAAO, CAAE, YAAW, Y; G; EAGxB, MAAmB, CAAZ, WAAY, YAAW, CAACA, CAAD, E; IAC1B, OAAO, KAAa, CAAP, OAAO, CAAC, CAAD, CAAI, IAAG, CAAS, CAAP, MAAO, KAAI, W; G; EAG5C, MA Ae, CAAR, OAAQ, YAAW, CAACA, CAAD, E; IACtB, OAAO, KAAa, CAAP, OAAO, CAAC, CAAD, CAAI, IAAG, CAAC, CAAD, CAAG, M; G; EAGIC, MAAkB, CAAX, UAAW, YAAW, CAACA, CAAD, E; IACzB, OAAO, KAAa, CAAP, OAAO, CAAC, CAAD, CAAI, IAAG, WAAkB, CAAN, MAAM, CAAC, CAAD, C; G; EAGjD, MAAqB, CAAd, aAAc, YAAW, CAACA, CAAD, E; IAC5B, IAAI, CAAE, KAAI, IAAV, C; MAAgB, OAAO, M; IACvB, IAAIC, WAAW, MAAkB, CAAX, WAAW, CAAC, CAAD, CAAI, GAAE, MAAF, CAAS, YAAT, GAAwB, MAAxB, CAA+B, Q; IACpE, OAAO, GAAI, GAAE, KAAwB, CAAIB, SAAkB, CAAR, GAAQ, CAAJ, IAAI, CAAC, CAAD, WAAY, CAACC, CAAD, E; MAAM, OAAO, QAAQ, CAAC, CAAD, C; KAAjC, CAA6C, CAAJ, IAAI, CAAC, IAAD, CAAO, GAAE, G; G; EAG/F, MAAyB, CAAIB, iBAaKB, YAAW, CAACC, GAAD, E; IACbC, OAAO, MA AiD, CAA1C, MAA0C, CAA nC, WAAmC, CAAvB, uBA AuB, CAAC, GAAD, C; G; EAG5D, MAAmB, CAAZ, WAAY, YAAW, CAACH, C, EAAGI, CAAJ, E; IAC1B, IAAI, CAAE, KAAI, CA AV, C, CAAa; A, MACT, OAAO, I; ; IAEX, IAAI, CAAE, KAAI, IAAK, IAAG, CAAE, KAAI, IAAK, IAAG, CAAC, MA AiB, CAAV, UAAU, CAAC, CAAD, CAAI, IAAG, CAAS, CAAP, MAAO, KAAI, CAAJ, CAAM, MAAx E, C, CAAGf; A, MAC5E, OAAO, K; ; IAGX, KAAK, IAAIC, IAAI, CAAR, EAAWC, IAAI, CAAJA, CAAM, MAAtB, EAA8B, CAAE, GAAE, CAAIC, EAAqC, CAAC, EAAtC, C, CAA0C; A, MACtC, IAAI, CAAC, MAAa, CAAN, MAAM, CAAC, CAAC, CAAC, CAAD, CAAF, EAAO, CAAC, CAAC, CAAD, CAAR, CAAIB, C, CAAgC; A, QAC5B, OAAO, K; ; ; IAGf, OAAO, I; G; EAGX, MAAuB, CAAhB, eAAgB, YAAW, CAACN, C, EAAGI, CAAJ, E; IAC9B, OAAO, MAA+C, CAAxC, MAAwC, CAAjC, WAAiC, CAARb, qBAaQB, CAAC, CAAD, EAAI, CAAJ, C; G; EAG1D, MAAqB, CAAd, aAAc, YAAW, CAACD, GAAD, E; IAC5B, IAAI, GAAI, KAAI, IAAZ, C; MAAkB, OAAO, C; IACzB, IAAI, SAAS, C; IACb, KAAK, IAAIF, IAAI, CAAR, EAAWC, IAAI, GAAJA, CAAQ, MAAxB, EAAgC, CAAE, GAAE, CAApC, EAAuC, CAAC, EAAxC, C, CAA4C; A, MACxC, MAAO, GAAqB, CAAjB, EAAG, GAAE, MAAO, GAAE, CAAG, IAAE, MA Ae, CAAR, QAAQ, CAAC, GAAG, CAAC, CAAD, CAAJ, CAAU, GAAE, C; ; IAE7D, OAAO, M; G; EAGX, MAAyB, CAAIB, iBAaKB, YAAW, CAACH, GAAD, E; IACbC, OAAO, MA AiD, CAA1C, MAA0C, CAA nC, WAAmC, CAAvB, uBA AuB, CAAC, GAAD, C; G; EAG5D, MAA0B, CAA nB, kBA AmB, YAAW, CAACK, KAAD, E; IACjC, KAAU, CAAJ, IAAI, CAAC, MAAD, CAAQ, eAAR, C; G; ECpFQ; ; ; IAAtB, MAAsB, CA Af, cAAe, YAAU, CAACC, IEAAMC, CAAP, E; IAC5B, CAAe, CAAb, YAAa, GAAE, I; IACjB, OAAO, C; G; EAGX, MAA8B, CAAvB, sBA AuB, YAAU, CAACD, IEAAME, U, EAAyC, M, EA AQC, MAA3B, E; IACpC, MAAW, CAAJ, GAAI, GAAE, M; IACb, MAAW, CAAJ, GAAI, GAAE, M; IACb, MAAoB, CA Ab, YAAa, GAAE, I; IACtB, OAAO, mBA AmB, CAAC, MAAD, EAAS, MAAT, EAAiB, 6BAA6B, CAAC, UAAD, CAA9C, C; G; 8BAGFC, CAACC, G, EAAKF, M, EAAQG, KAAdF, E; IACxB, GAAe, CAAX, UAAW, GAAE, sBAAsB, CAA C, OAAO, MAAO, KAAI, UAAW, GAAE, KAAF, CAAQ, OAAr, GAaKB, KAAIB, CAAwB, SAAtD, C; IACvC, GAAgB, CAAZ, WAAY, GAAE, G; IACIB, OAAO, G; G; EAGX, IAAIG, gCAAgC, CACHC, CACI, OADJ, EACa, CAAE, KAAF, EAAS, IAAT, EAAe, oBA Af, WAA8C, CAAA, E; IACnD, OAAO, MAAP, CAAc, MAAd, CAAqB, OAArB, CAA6B, iB; GADxB, CADb, EAII, SAJJ, EAIE, CAAE, KAAF, EAAS, IAAT, EAAe, oBA Af, WAA8C, CAAA, E; IACrD, OAAO, MA AP, CAAc, MAAd, CAAqB, OAArB, CAA6B, U; GADtB, CAJf, CADgC, EAShC, CACI, OADJ, EACa, CAAE, KAAF, EAAS, IAAT, EAAe, oBA Af, WAA8C, CAAA, E; IACnD, OAAO, MAAP, CAAc, MAAd, CAAqB, OAArB, CAA6B, iB; GADxB, CADb, EAII, SAJJ, EAIE, CAAE, KAAF, EAAS, IAAT, EAAe, oBA Af, WAA8C, CAAA, E; IACrD, OAAO, MA AP, CAAc, MAAd, CAAqB, OAArB, CAA6B, U; GADtB, CAJf, CATgC, C; iCAmBLC, CAACF, KAADE, E; IAC3B, IAAI, KAAy, CAAN, KAAM, KAAI, IAApB, C, CAA0B; A, MACTb, KAAy, CAAN, KAAM, GAAE, CACV, UADU, EACE, C AAC, KAA0B, CAAPb, oBA AoB, EAA3B, CADF, EAEV, SAFU, EAEC, IAFD, EAGV, SAHU, EAGC, EAHD, EAIV, UAJU, EAIE, EAJF, EAKV, KALU, EAKH, EALG, EAMV, aANU, EAMK, EANL, C; ; IASIB, OAAO, KAAP, CAAa, K; G; EChDF; ; ; IAAf, MA Ae, CAAR, OAAQ, YAAW, CAACIB, CAAD, E; IACtB, OAAoB, CAAZ, CAAE, GAAE, KAAQ, K AAG, EAAG, IAAG, E; G; EAGjC, MA Ac, CAAP, MAAO, YAAW, CAACA, CAAD, E; IACrB, OAAkB, CAAV, CAAE,





AAP,CAAc,IAAd,CAAmB,I;WACd,IAAI,KAAM,IAAG,CAAC,MAAD,CAAQ,IAAR,CAAa,eAA1B,C,CAA2C;  
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V,CAAe,eAA7B,C,CAA8C;A,MACnD,OAAO,MAAP,CAAc,IAAd,CAAmB,S;WACd,IAAI,KAAM,GAAE,CAA  
Z,C,CAAe;A,MACpB,OAAO,MAAsB,CAAf,IAAe,CAAV,UAAU,CAAC,CAAC,KAAP,CAAe,CAAN,MAAM,E;  
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W,CAAP,OAAO,CAAC,GAAD,CAAM,IAAG,CAAxB,C,CAA2B;A,MACHC,MAAM,KAAK,CAAC,+CAAGd,G  
AAE,GAAnD,C;;;IAKb,IAAIC,eAAe,MAAsB,CAAf,IAAe,CAAV,UAAU,CAAC,IAAQ,CAAH,GAAG,CAAC,K  
AAD,EAAQ,CAAR,CAAT,C;IAEzC,IAAI/B,SAAS,MAATA,CAAgB,IAAhBA,CAAqB,I;IACzB,KAAK,IAAIF,I  
AAI,CAAb,EAAGB,CAAE,GAAE,GAAP,CAAM,MAAxB,EAAGC,CAAE,IAAG,CAArC,C,CAAwC;A,MACtC,I  
AAIkC,OAAO,IAAQ,CAAH,GAAG,CAAC,CAAD,EAAl,GAAW,CAAP,MAAO,GAAE,CAAjB,C;MACnB,IAAI  
P,QAAQ,QAAQ,CAAC,GAAa,CAAT,SAAS,CAAC,CAAD,EAAl,CAAE,GAAE,IAAR,CAAd,EA6B,KAA7B,C  
;MACpB,IAAI,IAAK,GAAE,CAAX,C,CAAc;A,QACZ,IAAIQ,QAAQ,MAAsB,CAAf,IAAe,CAAV,UAAU,CAA  
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C,KAAD,CAAW,CAAH,GAAG,CAAC,MAAsB,CAAf,IAAe,CAAV,UAAU,CAAC,KAAD,CAAvB,C;aAC9B;A,  
QACL,MAAO,GAAE,MAAe,CAAR,QAAQ,CAAC,YAAD,C;QACxB,MAAO,GAAE,MAAU,CAAH,GAAG,CA  
AC,MAAsB,CAAf,IAAe,CAAV,UAAU,CAAC,KAAD,CAAvB,C;;IAGvB,OAAO,M;GAhCc;;;;;IA8CvB,MAA  
4B,CAArB,IAAqB,CAAhB,eAAgB,GAAE,CAAE,IAAG,EAAP;;;I;EAO5B,MAA4B,CAArB,IAAqB,CAAhB,eA  
AgB,GAAE,CAAE,IAAG,EAAP;;;I;EAO5B,MAA4B,CAArB,IAAqB,CAAhB,eAAgB,GACxB,MAA4B,CAArB,I  
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hB,eAAgB,GACxB,MAA4B,CAArB,IAAqB,CAAhB,eAAgB,GAAE,MAAF,CAAS,IAAT,CAAc,eADIB;;;I;EAQ5  
B,MAA4B,CAArB,IAAqB,CAAhB,eAAgB,GACxB,MAA4B,CAArB,IAAqB,CAAhB,eAAgB,GAAE,MAAF,CA  
AS,IAAT,CAAc,eADIB;;;I;EAQ5B,MAA4B,CAArB,IAAqB,CAAhB,eAAgB,GACxB,MAA4B,CAArB,IAAqB,C  
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Y,CAAP,OAAO,CAAC,EAAD,CAArB,0B;EAIpB,MAAsB,CAAf,IAAe,CAAV,SAAU,GACIB,MAAoB,CAAb,I  
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Af,IAAe,CAAV,SAAU,GAAE,MAAoB,CAAb,IAAa,CAAR,QAAQ,CAAC,CAAD,EAAl,aAAW,GAAE,CAAjB,  
CAAtB;;;I;EAOtB,MAAwB,CAAjB,IAAiB,CAAZ,WAAy,GAAE,MAAMb,CAAZ,IAAY,CAAP,OAAO,CAAC,  
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AU,CAAA,E;IACvC,OAAO,IAAW,CAAN,KAAM,GAAE,MAAF,CAAS,IAAT,CAAc,eAAgB,GACzC,IAAuB,C  
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;IAGb,IAAI,IAAW,CAAN,MAAM,EAaf,C,CAAmB;A,MACjB,OAAO,G;;IAGT,IAAI,IAAe,CAAV,UAAU,EA  
AnB,C,CAAuB;A,MACrB,IAAI,IAAe,CAAV,UAAU,CAAC,MAAD,CAAQ,IAAR,CAAa,SAAb,CAAnB,C,CAA  
4C;A,QAG1C;;YAAII,YAAy,MAAsB,CAAf,IAAe,CAAV,UAAU,CAAC,KAAD,C;QACtC,IAAIC,MAAM,IAA

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,E;IACzB,IAAIC,MAAM,KAAW,CAAL,IAAK,GAAE,K;IAEvB,IAAIC,MAAM,CAAV,EAAaC,MAAM,CAAnB,EAAsBC,MAAM,CAA5B,EAA+BC,MAAM,C;IACrC,GAAL,IAAG,GAAL,GAAE,G;IACb,GAAL,IAAG,GAAL,KAAL,E;IACf,GAAL,IAAG,K;IACP,GAAL,IAAG,GAAL,GAAE,G;IACb,GAAL,IAAG,GAAL,KAAL,E;IACf,GAAL,IAAG,K;IACP,GAAL,IAAG,GAAL,GAAE,G;IACb,GAAL,IAAG,GAAL,KAAL,E;IACf,GAAL,IAAG,K;IACP,GAAL,IAAG,GAAL,GAAE,G;IACb,GAAL,IAAG,K;IACP,OAAO,MAAoB,CAAb,IAAa,CAAR,QAAQ,CAAE,GAAL,IAAG,EAAL,GAAE,GAaf,EAAqB,GAAL,IAAG,EAAL,GAAE,GAAL,C;GazBH;;;I;EakC1B,MAA+B,CAAxB,IAAwB,CAAnB,SAAmB,CAAT,QAAS,YAAU,CAACd,KAAD,E;IACvC,OAAO,IAAQ,CAAH,GAAG,CAAC,KAA Y,CAAN,MAAM,EAAb,C;GADc;;;I;EAU/B,MAA+B,CAAxB,IAAwB,CAAnB,SAAmB,CAAT,QAAS,YAAU,C AACA,KAAD,E;IACvC,IAAL,IAAW,CAAN,MAAM,EAaf,C,CAAmB;A,MACjB,OAAO,MAAP,CAAc,IAAd,C AAmB,I;WACd,IAAL,KAAY,CAAN,MAAM,EAahB,C,CAAoB;A,MACzB,OAAO,MAAP,CAAc,IAAd,CAAmB ,I;IAGrB,IAAL,IAAe,CAAV,UAAU,CAAC,MAAD,CAAQ,IAAR,CAAa,SAAb,CAAnB,C,CAA4C;A,MAC1C,O AAO,KAAW,CAAL,KAAL,EAAG,GAAE,MAAF,CAAS,IAAT,CAAc,SAAd,GAA0B,MAA1B,CAAiC,IAAjC,C AAsC,I;WACtD,IAAL,KAAGB,CAAV,UAAU,CAAC,MAAD,CAAQ,IAAR,CAAa,SAAb,CAApB,C,CAA6C;A,M ACID,OAAO,IAAU,CAAL,KAAL,EAAG,GAAE,MAAF,CAAS,IAAT,CAAc,SAAd,GAA0B,MAA1B,CAAiC,IA AjC,CAAsC,I;IAG5D,IAAL,IAAe,CAAV,UAAU,EAAnB,C,CAAuB;A,MACrB,IAAL,KAAGB,CAAV,UAAU,EA ApB,C,CAAwB;A,QACtB,OAAO,IAAW,CAAN,MAAM,EAAW,CAAR,QAAQ,CAAC,KAAY,CAAN,MAAM,EA Ab,C;aACxB;A,QACL,OAAO,IAAW,CAAN,MAAM,EAAW,CAAR,QAAQ,CAAC,KAAD,CAAc,CAAN,MA AM,E;;WAExC,IAAL,KAAGB,CAAV,UAAU,EAAPB,C,CAAwB;A,MAC7B,OAAO,IAAa,CAAR,QAAQ,CAAC, KAAY,CAAN,MAAM,EAAb,CAAuB,CAAN,MAAM,E;;;IAI7C,IAAL,IAAa,CAAR,QAAQ,CAAC,MAAD,CAA Q,IAAR,CAAa,WAAb,CAA0B,IACvC,KAAC,CAAR,QAAQ,CAAC,MAAD,CAAQ,IAAR,CAAa,WAAb,CADIB, C,CAC6C;A,MAC3C,OAAO,MAAsB,CAaf,IAAe,CAAV,UAAU,CAAC,IAAa,CAAR,QAAQ,EAAG,GAAE,KA Ac,CAAR,QAAQ,EAajC,C;;;IAM/B,IAAIG,MAAM,IAAW,CAAN,KAAM,KAAL,E;IACzB,IAAIC,MAAM,IAA W,CAAN,KAAM,GAAE,K;IACvB,IAAIC,MAAM,IAAU,CAAL,IAAK,KAAL,E;IACxB,IAAIC,MAAM,IAAU,C AAL,IAAK,GAAE,K;IAEtB,IAAIC,MAAM,KAAY,CAAN,KAAM,KAAL,E;IAC1B,IAAIC,MAAM,KAAY,CAA N,KAAM,GAAE,K;IACxB,IAAIC,MAAM,KAAW,CAAL,IAAK,KAAL,E;IACzB,IAAIC,MAAM,KAAW,CAAL, IAAK,GAAE,K;IAEvB,IAAIC,MAAM,CAAV,EAAaC,MAAM,CAAnB,EAAsBC,MAAM,CAA5B,EAA+BC,MA AM,C;IACrC,GAAL,IAAG,GAAL,GAAE,G;IACb,GAAL,IAAG,GAAL,KAAL,E;IACf,GAAL,IAAG,K;IACP,GAAL, IAAG,GAAL,GAAE,G;IACb,GAAL,IAAG,GAAL,KAAL,E;IACf,GAAL,IAAG,K;IACP,GAAL,IAAG,GAAL,GAAE, G;IACb,GAAL,IAAG,GAAL,KAAL,E;IACf,GAAL,IAAG,K;IACP,GAAL,IAAG,GAAL,GAAE,G;IACb,GAAL,IAAG ,GAAL,KAAL,E;IACf,GAAL,IAAG,K;IACP,GAAL,IAAG,GAAL,GAAE,G;IACb,GAAL,IAAG,GAAL,KAAL,E;IACf ,GAAL,IAAG,K;IACP,GAAL,IAAG,GAAL,GAAE,G;IACb,GAAL,IAAG,GAAL,KAAL,E;IACf,GAAL,IAAG,K;IAC P,GAAL,IAAG,GAAL,GAAE,GAAL,GAAE,GAAL,GAAE,GAAL,GAAE,GAAL,GAAE,GAAL,GAAE,GAAL,GAAE, G;IACjD,GAAL,IAAG,K;IACP,OAAO,MAAoB,CAAb,IAAa,CAAR,QAAQ,CAAE,GAAL,IAAG,EAAL,GAAE,G Aaf,EAAqB,GAAL,IAAG,EAAL,GAAE,GAAL,C;GA/DE;;;I;EAwE/B,MAA0B,CAAnB,IAAmB,CAAd,SAAc,C AAJ,GAAL,YAAU,CAACd,KAAD,E;IACiC,IAAL,KAAY,CAAN,MAAM,EAahB,C,CAAoB;A,MACiB,MAAM, KAAL,CAAC,kBAAD,C;WACN,IAAL,IAAW,CAAN,MAAM,EAaf,C,CAAmB;A,MACxB,OAAO,MAAP,CAAc ,IAAd,CAAmB,I;IAGrB,IAAL,IAAe,CAAV,UAAU,CAAC,MAAD,CAAQ,IAAR,CAAa,SAAb,CAAnB,C,CAA4 C;A,MAC1C,IAAL,KAAGB,CAAV,UAAU,CAAC,MAAD,CAAQ,IAAR,CAAa,GAAb,CAAKB,IACiC,KAAGB,C AAV,UAAU,CAAC,MAAD,CAAQ,IAAR,CAAa,OAAb,CADpB,C,CAC2C;A,QACzC,OAAO,MAAP,CAAc,IAA d,CAAmB,SAAnB;A,aACK,IAAL,KAAGB,CAAV,UAAU,CAAC,MAAD,CAAQ,IAAR,CAAa,SAAb,CAApB,C,C AA6C;A,QACID,OAAO,MAAP,CAAc,IAAd,CAAmB,G;aACd;A,QAEL;YAAIe,WAaw,IAAe,CAAV,UAAU,C AAC,CAAD,C;QAC9B,IAAIC,SAAS,QAAY,CAAH,GAAG,CAAC,KAAD,CAAiB,CAAT,SAAS,CAAC,CAAD, C;QAC1C,IAAL,MAAiB,CAAV,UAAU,CAAC,MAAD,CAAQ,IAAR,CAAa,IAAb,CAArB,C,CAAyC;A,UACvC, OAAO,KAAGB,CAAV,UAAU,EAAG,GAAE,MAAF,CAAS,IAAT,CAAc,GAAd,GAAoB,MAApB,CAA2B,IAA3 B,CAAGC,O;eACrD;A,UACL,IAALtB,MAAM,IAAa,CAAR,QAAQ,CAAC,KAAC,CAAR,QAAQ,CAAC,MAAD, CAaf,C;UACvB,IAALpC,SAAS,MAAU,CAAH,GAAG,CAAC,GAAO,CAAH,GAAG,CAAC,KAAD,CAAR,C;U ACvB,OAAO,M;;;WAGN,IAAL,KAAGB,CAAV,UAAU,CAAC,MAAD,CAAQ,IAAR,CAAa,SAAb,CAApB,C,CA A6C;A,MACID,OAAO,MAAP,CAAc,IAAd,CAAmB,I;IAGrB,IAAL,IAAe,CAAV,UAAU,EAAnB,C,CAAuB;A,

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;MACtC,IAAIC,YAAY,SAAkB,CAAR,QAAQ,CAAC,KAAD,C;MACIC,OAAO,SAAoB,CAAV,UAAU,EAAG,I  
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AD,C;;;MAKhC,IAAI,SAAgB,CAAN,MAAM,EAAPB,C,CAAwB;A,QACtB,SAAU,GAAE,MAAF,CAAS,IAAT,  
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,E;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAGB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,O  
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B,C;;MACpC,OAAO,W;K;yFAGX,C,6BAAA,E;MAUoB,Q;MADhB,kBAAkB,O;MACIB,wBAAGB,SAAhB,gB;  
QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;yFAGX,C,6B  
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pC,OAAO,W;K;yFAGX,C,6BAAA,E;MAUoB,Q;MADhB,kBAAkB,O;MACIB,wBAAGB,SAAhB,gB;QAAgB,cA  
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UoB,Q;MADhB,kBAAkB,O;MACIB,wBAAGB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,UAAU,WA  
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Ac, WAAU, cAAV, EAAU, sBAAV, WAAmB, WAAAnB, EAAGC, oBAAhC, C;; QACpC, OAAO, W; O; KAbX, C; wFAGB  
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SAAS, CAAhB, C; UACI, cAAc, UAAU, UAAI, YAAJ, EAAL, oBAAJ, OAAV, EAAwB, WAAxB, C;; QAEIB, OAAO, W;  
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EJ, OAAO, W; O; KAxBX, C; 6FAMBA, C, iBAAA, E; MAIoB, Q; MAAhB, wBAAGB, SAAhB, gB; QAAgB, cAAA, SAAh  
B, M; QAAsB, OAAO, OAAP, C;; K; +FAG1B, C, iBAAA, E; MAIoB, Q; MAAhB, wBAAGB, SAAhB, gB; QAAgB, cAAA,  
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AuB,IAAvB,EAAiC,UAAK,IAAL,GAAY,CAAhB,GAAMb,IAAnB,GAA6B,CAAC,IAAD,IAA1D,C;K;8BAG3B,C,SAAA,E;MACI,OAAMb,IAAR,8BAAgC,GAApC,GAAiE,OAAL,SAAK,CAAjE,GAA+E,I;K;gCAG1F,C,SAA A,E;MACI,OAAW,mEAAJ,GAAMe,OAAL,SAAK,SAAnE,GAAiF,I;K;gCAG5F,C,SAAA,E;MA1OY,Q;MA2OR ,OA3OkC,YAA1B,qBA2OW,oDAAe,SAAf,EAA0B,sCAA1B,CAAYC,SAAzC,CA3OX,kCAA0B,EA2OvB,SA3O uB,CA2O3B,GAAqE,OAAL,SAAK,CAArE,GAAMf,I;K;gCAG9F,C,SAAA,E;MACI,OAAMb,iDAAe,SAAf,EA A2B,sCAA3B,CAA0C,SAA1C,CAAR,4BAAJ,GAA+E,OAAR,YAAL,SAAK,CAAQ,CAA/E,GAA6F,I;K;gCAGx G,C,SAAA,E;MACI,OAAMb,iDAAe,SAAf,EAA0B,sCAA1B,CAAYC,SAAzC,CAAR,4BAAJ,GAA6E,OAAR,Y AAL,SAAK,CAAQ,CAA7E,GAA2F,I;K;6BAGtG,C,SAAA,E;MACI,OAAW,iFAAJ,GAA4D,SAAK,QAAjE,GAA 8E,I;K;+BAGzF,C,SAAA,E;MACI,OAAMb,UAAc,WAAAd,EAAwC,UAAxC,CAAR,4BAAJ,GAAqE,YAAL,SAA K,CAArE,GAakF,I;K;+BAG7F,C,SAAA,E;MACI,OAAMb,UAAc,WAAAd,EAAuC,UAAvC,CAAR,4BAAJ,GAA mE,YAAL,SAAK,CAAnE,GAAgF,I;K;8BAG3F,C,SAAA,E;MACI,OAAMb,UAAe,mCAAF,EAA0C,mCAA1C,C AAR,4BAAJ,GAAuE,uBAAL,SAAK,CAAvE,GAAqF,I;K;gCAGhG,C,SAAA,E;MACI,OAAMb,UAAe,mCAAF,E AAYC,mCAAzC,CAAR,4BAAJ,GAAqE,uBAAL,SAAK,CAArE,GAAMf,I;K;+BAG9F,C,SAAA,E;MACI,OAAM B,MAAR,8BAAiC,KAArC,GAAMe,QAAL,SAAK,CAAnE,GAakF,I;K;iCAG7F,C,SAAA,E;MACI,OAAW,uEA AJ,GAAqE,QAAL,SAAK,SAArE,GAAoF,I;K;iCAG/F,C,SAAA,E;MACI,OAAMb,kDAAgB,SAAhB,EAA4B,uC AA5B,CAA4C,SAA5C,CAAR,4BAAJ,GAAiF,QAAR,YAAL,SAAK,CAAQ,CAAjF,GAAgG,I;K;iCAG3G,C,SAA A,E;MACI,OAAMb,kDAAgB,SAAhB,EAA2B,uCAA3B,CAA2C,SAA3C,CAAR,4BAAJ,GAA+E,QAAR,YAAL, SAAK,CAAQ,CAA/E,GAA8F,I;K;kBAGzG,C,aAAA,E;MAMI,OAAO,wBAAY,EAAa,GAAG,CAAG,IAAzB,C; K;oBAGX,C,aAAA,E;MAMI,OAAO,kBAAY,oBAAH,EAAG,CAAc,8BAAH,CAAG,EAA1B,C;K;oBAGX,C,aA AA,E;MAMI,OAAO,aAAK,SAAL,EAAoB,EAAa,GAAG,CAAG,IAAjC,C;K;oBAGX,C,aAAA,E;MAMI,OAAO,a AAK,SAAL,EAAoB,EAAa,GAAG,CAAG,IAAjC,C;K;oBAGX,C,aAAA,E;MAMI,IAAL,MAAM,CAAV,C;QAAo B,OAAO,iCAAP,CAAiB,K;MACrC,OAAO,yBAAiB,OAAR,EAAQ,GAAG,CAAG,CAAjB,C;K;oBAGX,C,aAAA ,E;MAMI,IAAL,MAAM,WAAV,C;QAAyB,OAAO,gCAAP,CAAgB,K;MACzC,OAAO,wBAAS,EAAQ,GAAG,C AAG,IAAjB,C;K;oBAGX,C,aAAA,E;MAMI,OAAO,kBAAY,oBAAH,EAAG,CAAc,8BAAH,CAAG,EAA1B,C;K ;oBAGX,C,aAAA,E;MAMI,IAAL,MAAM,WAAV,C;QAAyB,OAAO,gCAAP,CAAgB,K;MACzC,OAAO,aAAK,S AAL,EAAiB,EAAQ,GAAG,CAAG,IAAzB,C;K;oBAGX,C,aAAA,E;MAMI,IAAL,MAAM,WAAV,C;QAAyB,OA AO,gCAAP,CAAgB,K;MACzC,OAAO,aAAK,SAAL,EAAiB,EAAQ,GAAG,CAAG,IAAzB,C;K;oBAGX,C,aAA A,E;MAMI,IAAL,iDAAJ,C;QAA0B,OAAO,iCAAP,CAAiB,K;MAC3C,OAAO,yBAAL,SAAK,CAAL,SAAkB,EA AQ,8BAAH,CAAG,EAA1B,C;K;oBAGX,C,aAAA,E;MAMI,IAAL,iDAAJ,C;QAA0B,OAAO,iCAAP,CAAiB,K;M AC3C,OAAO,kBAAS,EAAQ,8BAAH,CAAG,EAAjB,C;K;qBAGX,C,aAAA,E;MAMI,IAAL,iDAAJ,C;QAA0B,O AAO,iCAAP,CAAiB,K;MAC3C,OAAO,yBAAL,SAAK,CAAL,SAAkB,EAAQ,8BAAH,CAAG,EAA1B,C;K;qBA GX,C,aAAA,E;MAMI,IAAL,iDAAJ,C;QAA0B,OAAO,iCAAP,CAAiB,K;MAC3C,OAAO,yBAAL,SAAK,CAAL, SAAkB,EAAQ,8BAAH,CAAG,EAA1B,C;K;qBAGX,C,aAAA,E;MAMI,OAAO,wBAAY,EAAa,GAAG,CAAG,I AAzB,C;K;qBAGX,C,aAAA,E;MAMI,OAAO,kBAAY,oBAAH,EAAG,CAAc,8BAAH,CAAG,EAA1B,C;K;qBA GX,C,aAAA,E;MAMI,OAAO,aAAK,SAAL,EAAoB,EAAa,GAAG,CAAG,IAAjC,C;K;qBAGX,C,aAAA,E;MAMI ,OAAO,aAAK,SAAL,EAAoB,EAAa,GAAG,CAAG,IAAjC,C;K;0BAGX,C,uBAAA,E;MAQI,OAAW,4BAAO,YA AP,KAAJ,GAAyB,YAAzB,GAA2C,S;K;4BAGtD,C,uBAAA,E;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,G AA2C,S;K;4BAGtD,C,uBAAA,E;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;4BAGtD,C,uBAA A,E;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;4BAGtD,C,uBAAA,E;MAQI,OAAW,0BAAO,Y AAP,KAAJ,GAAyB,YAAzB,GAA2C,S;K;4BAGtD,C,uBAAA,E;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB, GAA2C,S;K;4BAGtD,C,uBAAA,E;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;yBAGtD,C,uBA AA,E;MAQI,OAAW,4BAAO,YAAP,KAAJ,GAAyB,YAAzB,GAA2C,S;K;2BAGtD,C,uBAAA,E;MAQI,OAAW, YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;2BAGtD,C,uBAAA,E;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAz B,GAA2C,S;K;2BAGtD,C,uBAAA,E;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;2BAGtD,C,uB AAA,E;MAQI,OAAW,0BAAO,YAAP,KAAJ,GAAyB,YAAzB,GAA2C,S;K;2BAGtD,C,uBAAA,E;MAQI,OAAW ,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;qBAGtD,C,qCAA,E;MAQI,IAAL,iBAAiB,IAAjB,IAAYB,iBAAiB,IAA9C,C;QACI,IAAL,+BAA e,YAAf,KAAJ,C;UAAiC,MAAM,gCAAYB,6DAAiD,YAAjD,wCAAoF,YAApF,OAazB,C;QACvC,IAAL,4BAAO



, YAAP, KAAJ, C; UAAyB, OAAO, Y; QACHC, IAAI, 4BAAO, YAAP, KAAJ, C; UAAyB, OAAO, Y;; QAGhC, IAAI, iBA  
AiB, IAAjB, IAAyB, 4BAAO, YAAP, KAA7B, C; UAAkD, OAAO, Y; QACzD, IAAI, iBAAiB, IAAjB, IAAyB, 4BAAO,  
YAAP, KAA7B, C; UAAkD, OAAO, Y;; MAE7D, OAAO, S; K; uBAGX, C, qCAA, E; MAQI, IAAI, eAAe, YAAAnB, C; Q  
AAiC, MAAM, gCAAyB, oDAAiD, YAAjD, 8BAAoF, YAApF, MAAzB, C; MACvC, IAAI, YAAO, YAAX, C; QAAyB,  
OAAO, Y; MACHC, IAAI, YAAO, YAAX, C; QAAyB, OAAO, Y; MACHC, OAAO, S; K; uBAGX, C, qCAA, E; MAQI, IA  
AI, eAAe, YAAAnB, C; QAAiC, MAAM, gCAAyB, oDAAiD, YAAjD, 8BAAoF, YAApF, MAAzB, C; MACvC, IAAI, YA  
AO, YAAX, C; QAAyB, OAAO, Y; MACHC, IAAI, YAAO, YAAX, C; QAAyB, OAAO, Y; MACHC, OAAO, S; K; uBAGX,  
C, qCAA, E; MAQI, IAAI, eAAe, YAAAnB, C; QAAiC, MAAM, gCAAyB, oDAAiD, YAAjD, 8BAAoF, YAApF, MAAz  
B, C; MACvC, IAAI, YAAO, YAAX, C; QAAyB, OAAO, Y; MACHC, IAAI, YAAO, YAAX, C; QAAyB, OAAO, Y; MACH  
C, OAAO, S; K; uBAGX, C, qCAA, E; MAQI, IAAI, 6BAAe, YAAf, KAAJ, C; QAAiC, MAAM, gCAAyB, oDAAiD, YA  
AjD, yCAAoF, YAApF, iBAAzB, C; MACvC, IAAI, 0BAAO, YAAP, KAAJ, C; QAAyB, OAAO, Y; MACHC, IAAI, 0BA  
AO, YAAP, KAAJ, C; QAAyB, OAAO, Y; MACHC, OAAO, S; K; uBAGX, C, qCAA, E; MAQI, IAAI, eAAe, YAAAnB, C;  
QAAiC, MAAM, gCAAyB, oDAAiD, YAAjD, 8BAAoF, YAApF, MAAzB, C; MACvC, IAAI, YAAO, YAAX, C; QAAy  
B, OAAO, Y; MACHC, IAAI, YAAO, YAAX, C; QAAyB, OAAO, Y; MACHC, OAAO, S; K; uBAGX, C, qCAA, E; MAQI,  
IAAI, eAAe, YAAAnB, C; QAAiC, MAAM, gCAAyB, oDAAiD, YAAjD, 8BAAoF, YAApF, MAAzB, C; MACvC, IAAI, Y  
AAO, YAAX, C; QAAyB, OAAO, Y; MACHC, IAAI, YAAO, YAAX, C; QAAyB, OAAO, Y; MACHC, OAAO, S; K; uBAG  
X, C, gBAAA, E; MAUW, Q; MADP, IAAI, KAAM, UAAV, C; QAAqB, MAAM, gCAAyB, 4CAAYC, KAAzC, MAAzB, C  
; MAGvB, IAAA, KAAM, 0BAAiB, SAAjB, EAAuB, KAAvB, CAA6B, KAA7B, CAAN, IAA6C, CAAC, KAAM, 0BAAi  
B, KAAjB, CAAuB, KAAvB, EAA8B, SAA9B, CAAPD, C; QAAiG, OAAO, KAAM, M; WAEjG, IAAA, KAAM, 0BAAi  
B, KAAjB, CAAuB, YAAvB, EAAqC, SAArC, CAAN, IAAoD, CAAC, KAAM, 0BAAiB, SAAjB, EAAuB, KAAvB, CA  
A6B, YAA7B, CAA3D, C; QAA+G, OAAO, KAAM, a;; QACvG, gB; MALZ, W; K; uBASJ, C, gBAAA, E; MAYW, Q; MAJ  
P, IAAI, 8CAAJ, C; QACI, OAAO, WAAL, SAAK, EAAy, KAAZ, C;; MAEhB, IAAI, KAAM, UAAV, C; QAAqB, MAA  
M, gCAAyB, 4CAAYC, KAAzC, MAAzB, C; MAEvB, gCAAO, KAAP, CAAa, KAAb, M; QAA4B, OAAO, KAAM, M; W  
AC5B, gCAAO, KAAP, CAAa, YAAb, M; QAAMC, OAAO, KAAM, a;; QAC3B, gB; MAHZ, W; K; uBAOJ, C, gBAAA, E;  
MAYW, Q; MAJP, IAAI, 8CAAJ, C; QACI, OAAO, WAAL, SAAK, EAAc, KAAc, C;; MAEhB, IAAI, KAAM, UAAV, C;  
QAAqB, MAAM, gCAAyB, 4CAAYC, KAAzC, MAAzB, C; MAEvB, gBAAO, KAAP, CAAa, KAAb, C; QAA4B, OAAO  
, KAAM, M; WAC5B, gBAAO, KAAP, CAAa, YAAb, C; QAAMC, OAAO, KAAM, a;; QAC3B, gB; MAHZ, W; K; uBAOJ,  
C, gBAAA, E; MAYW, Q; MAJP, IAAI, 8CAAJ, C; QACI, OAAO, WAAL, SAAK, EAAe, KAAf, C;; MAEhB, IAAI, KAA  
M, UAAV, C; QAAqB, MAAM, gCAAyB, 4CAAYC, KAAzC, MAAzB, C; MAEvB, 8BAAO, KAAP, CAAa, KAAb, M; Q  
AA4B, OAAO, KAAM, M; WAC5B, 8BAAO, KAAP, CAAa, YAAb, M; QAAMC, OAAO, KAAM, a;; QAC3B, gB; MAH  
Z, W; K; qCah/CJ, C, gBAAA, E; MAMuF, wC; K; IANvF, uDAOI, CAAA, E; MAAuC, 8B; K; IAP3C, gF; wBkBQA, C, kBA  
AA, E; MAMI, OAAO, sBAAQ, OAAO, KAAoB, C; K; +BAWG, C, aAAA, E; MAAA, iB, EAAA, E; QAAE, MAAM, 8BA  
A0B, +CAA4C, aAA5C, MAA1B, C; O; K; wBAR1C, C, gBAAA, E; MAQI, OAAO, 8BAAgB, KAAhB, EAAuB, yBAAvB  
, C; K; +BAGX, C, 8BAAA, E; MACqB, Q; MANjB, IAAI, QAAQ, CAAZ, C; QACI, OAAO, aAAA, KAAb, C; MACX, eAAe,  
oB; MACf, YAAy, C; MACZ, OAAO, QAAS, UAAhB, C; QACI, cAAc, QAAS, O; QACvB, IAAI, WAAS, YAAT, EAAS,  
oBAAT, OAAJ, C; UACI, OAAO, O;; MAEf, OAAO, aAAA, KAAb, C; K; +BAGX, C, gBAAA, E; MACqB, Q; MANjB, IAA  
I, QAAQ, CAAZ, C; QACI, OAAO, I; MACX, eAAe, oB; MACf, YAAy, C; MACZ, OAAO, QAAS, UAAhB, C; QACI, cAA  
c, QAAS, O; QACvB, IAAI, WAAS, YAAT, EAAS, oBAAT, OAAJ, C; UACI, OAAO, O;; MAEf, OAAO, I; K; uFAGX, C, o  
BAAA, E; MASW, sB; 4BA8FX, A, QAFoB, Q; QAAA, 2B; QAAhB, OAAgB, cAAhB, C; UAAgB, yB; UAAM, IA5FH, SA  
4FO, CAAU, OAAV, CAAJ, C; YAAwB, qBAAO, O; YAAP, uB;; QAC9C, qBAAO, I;; MA7FP, yB; K; gGAGJ, C, oBAA  
A, E; MAmOoB, Q; MADhB, WAAe, I; MACC, 2B; MAAhB, OAAgB, cAAhB, C; QAAgB, yB; QACZ, IA3Nc, SA2NV, C  
AAU, OAAV, CAAJ, C; UACI, OAAO, O;; MA5Nf, OA+NO, I; K; qBA5NX, C, SAAA, E; MAQI, eAAe, oB; MACf, IAAI,  
CAAC, QAAS, UAAc, C; QACI, MAAM, 2BAAuB, oBAAvB, C; MACV, OAAO, QAAS, O; K; iFAGpB, uBAAA, E; MA  
AA, iE; MAAA, iB, oBAAA, E; QAOoB, Q; QAAA, 2B; QAAhB, OAAgB, cAAhB, C; UAAgB, yB; UAAM, IAAI, UAAU,  
OAAV, CAAJ, C; YAAwB, OAAO, O;; QACrD, MAAM, gCAAuB, sDAAvB, C; O; KARV, C; kGAWA, uBAAA, E; MAA  
A, iE; MAAA, iB, oBAAA, E; QAW8C, IAAnc, I; QAAA, +B; uCAqBX, A, UAPoB, U; UAAA, 6B; UAAhB, OAAgB, gBA  
AhB, C; YAAgB, 2B; YACZ, aAfwB, SAeX, CAAU, OAAV, C; YACb, IAAI, cAAJ, C; cACI, 8BAAO, M; cAAP, gC;; UA  
GR, 8BAAO, I;; QApBA, kC; QAAA, iB; UAAMC, MAAM, gCAAuB, iEAAvB, C;; QAAhD, OAAO, I; O; KAXX, C; uHA

cA,C,oBAAA,E;MAWoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,aAAa,UAAU,OAAV,C;QACb,IAAI,cAAJ,C;UACI,OAAO,M;;;MAGf,OAAO,I;K;2BAGX,C,SAAA,E;MAMI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QACI,OAAO,I;MACX,OAAO,QAAS,O;K;sGAGpB,C,oBAAA,E;MAMoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;;MACrD,OAAO,I;K;uBAGX,C,kBAAA,E;MAOiB,Q;MADb,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,mBAAmB,KAAAnB,C;QACA,IAAI,gBAAW,IAAX,CAAJ,C;UACI,OAAO,K;QACX,qB;;MAEJ,OAAO,E;K;+FAGX,uBAAA,E;MAAA,wE;MAAA,iB,oBAAA,E;QAOiB,Q;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,mBAAmB,KAAAnB,C;UACA,IAAI,UAAU,IAAV,CAAJ,C;YACI,OAAO,K;UACX,qB;;QAEJ,OAAO,E;O;KAbX,C;6FAGBA,uBAAA,E;MAAA,wE;MAAA,iB,oBAAA,E;QAQiB,Q;QAFb,gBAAGB,E;QACHB,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,mBAAmB,KAAAnB,C;UACA,IAAI,UAAU,IAAV,CAAJ,C;YACI,YAAY,K;UACHB,qB;;QAEJ,OAAO,S;O;KAdX,C;oBAiBA,C,SAAA,E;MAUI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QACI,MAAM,2BAAuB,oBAAvB,C;MACV,WAAW,QAAS,O;MACpB,OAAO,QAAS,UAAhB,C;QACI,OAAO,QAAS,O;MACpB,OAAO,I;K;+EAGX,uBAAA,E;MAAA,iE;MAAA,gB;MAAA,8B;MAAA,iB,oBAAA,E;QAYoB,UAQT,M;QAVP,WAAe,I;QACf,YAAY,K;QACI,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,OAAO,O;YACP,QAAQ,I;;;QAGhB,IAAI,CAAC,KAAL,C;UAAy,MAAM,gCAAuB,sDAAvB,C;QAEIB,OAAO,2E;O;KApBX,C;2BAuBA,C,kBAAA,E;MAQiB,Q;MAFb,gBAAGB,E;MACHB,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,mBAAmB,KAAAnB,C;QACA,IAAI,gBAAW,IAAX,CAAJ,C;UACI,YAAY,K;QACHB,qB;;MAEJ,OAAO,S;K;0BAGX,C,SAAA,E;MAQI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QACI,OAAO,I;MACX,WAAW,QAAS,O;MACpB,OAAO,QAAS,UAAhB,C;QACI,OAAO,QAAS,O;MACpB,OAAO,I;K;oGAGX,C,oBAAA,E;MASoB,Q;MADhB,WAAe,I;MACC,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,OAAO,O;;;MAGf,OAAO,I;K;sBAGX,C,SAAA,E;MAMI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QACI,MAAM,2BAAuB,oBAAvB,C;MACV,aAAa,QAAS,O;MACtB,IAAI,QAAS,UAAb,C;QACI,MAAM,gCAAYB,qCAAzB,C;MACV,OAAO,M;K;mFAGX,uBAAA,E;MAAA,kF;MAAA,iE;MAAA,gB;MAAA,8B;MAAA,iB,oBAAA,E;QAQoB,UASt,M;QAXP,aAAiB,I;QACjB,YAAY,K;QACI,2B;QAAhB,OAAGB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,CAAJ,C;CAAW,MAAM,8BAAyB,mDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;;QAGhB,IAAI,CAAC,KAAL,C;UAAy,MAAM,gCAAuB,sDAAvB,C;QAEIB,OAAO,6E;O;KAjBX,C;4BAoBA,C,SAAA,E;MAMI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QACI,OAAO,I;MACX,aAAa,QAAS,O;MACtB,IAAI,QAAS,UAAb,C;QACI,OAAO,I;MACX,OAAO,M;K;wGAGX,C,oBAAA,E;MAQoB,Q;MAFhB,aAAiB,I;MACjB,YAAY,K;MACI,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,CAAJ,C;YAAW,OAAO,I;UACIB,SAAS,O;UACT,QAAQ,I;;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;mBAGX,C,YAAA,E;MAWW,Q;MhBjXP,IAAI,EgBgXI,KAAK,ChBhXT,CAAJ,C;QACI,cgB+Wc,sD;QhB9Wd,MAAM,gCAAYB,OA AQ,WAAjC,C;;MgBgXN,UAAK,CAAL,C;QAAU,gB;WACV,+C;QAAiC,OAAL,SAAK,cAAK,CAAL,C;;QACzB,wBAAa,SAAb,EAAmB,CAAnB,C;MAHZ,W;K;wBAOJ,C,oBAAA,E;MAQI,OAAO,sBAaKB,SAAlB,EAAwB,SAAxB,C;K;qBAGX,C,oBAAA,E;MAQI,OAAO,sBAaKB,SAAlB,EAAwB,IAAxB,EAA8B,SAA9B,C;K;iCAcQe,C,iBAAA,E;MAAA,iB,EAAA,E;QAAE,yBAAU,EAAV,CAAA,KAAb,EAAoB,EAApB,CAAU,B,KAAvB,C;O;K;mCAAkC,C,EAAA,E;MAAE,UAAG,K;K;4BAXzH,C,oBAAA,E;MAWI,OAAO,yBAaqB,sBAaKB,qBAAiB,SAAjB,CAAlB,EAA0C,IAA1C,EAAGD,+BAAhD,CAArB,EAAyG,sBAAzG,C;K;oGAGX,uBAAA,E;MAo2BA,wE;MAp2BA,iB,iCAA,E;QA62BiB,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAI2BT,IAAI,U Ak2BkB,oBAAmB,cAAnB,EAAmB,sBAAnB,UAI2BIB,EAK2B+C,IAI2B/C,CAAJ,C;YAA2C,sBAk2BQ,IAI2BR,C;;QAE/C,OAAO,W;O;KAbX,C;sGAGBA,uBAAA,E;MAAA,8C;MAAA,0C;MAAA,8B;sCASKB,C,kBAAA,E;QAAA,iB,EAAA,E;UAAE,c;S;O;MATpB,iB,mBAAA,E;QASW,Q;QAAP,OAAO,uCAAo,iCAAP,gC;O;KATX,C;mHAYA,C,gCAA,E;MAQoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QAAM,IAAI,YAAJ,C;UA AkB,WAAy,WAAI,OAAJ,C;;MACpD,OAAO,W;K;wBAGX,C,oBAAA,E;MAQI,OAAO,sBAaKB,SAAlB,EAAwB,KAAXB,EAA+B,SAA/B,C;K;iCAYU,C,EAAA,E;MAAE,iB;K;4BATvB,C,SAAA,E;MASW,Q;MAAP,OAAO,4CAAU,oBAAV,kC;K;8BAGX,C,sBAAA,E;MAQoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QAAM,IAAI,eAAJ,C;UAAqB,WAAy,WAAI,OAAJ,C;;MACvD,OAAO,W;K;qGAGX,C,iCAA,E;MAQoB,Q;MAAA,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAy,WAA

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,U;UADP,Y0B2pBe,W1B3pBH,W0B2pBwB,G1B3pBxB,C;UACL,IAAI,aAAJ,C;YACH,a0BypBuC,gB;YAA5B,  
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CkdD,EpCldC,CoCkdX,C;W;S;OAAF,C;MAPhC,iB,oBAAA,E;QAOMB,4BAAR,O;QAAQ,uB;+BxC2yBnB;A,U  
ANI,0D;YACI,IwCtyB0B,UpCldW,gBJwvCvB,YAAK,KAAL,ClxvCuB,CoCkdX,CxCsyB1B,C;cACI,sBAAO,K;c  
AAP,wB;;;UAGR,sBAAO,E;;;QwC1yBP,0B;O;KAPJ,C;+FAUA,uBAAA,E;MAAA,sC;MxCs5BA,0D;MAAA,+C;  
MGp1CA,6B;MqC8bA,yBAO+B,uBAAA,E;QrCrc/B,6B;wBqCqc+B,C,iBAAA,E;UAAA,iB,EAAA,E;YAAE,yBr  
C3bM,cqC2bI,ErC3bJ,CqC2bN,C;W;S;OAAF,C;MAP/B,iB,oBAAA,E;QAOMB,4BAAR,O;QAAQ,sB;8BxCy5Bn  
B;A,UANKB,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAAd,OAAc,cAAAd,C;YAAc,uB;YACV,IwCp5ByB,Ur  
C3bM,cH+0CjB,YAAK,KAAL,CG/0CiB,CqC2bN,CxCo5BzB,C;cACI,qBAAO,K;cAAP,uB;;;UAGR,qBAAO,E;;;  
QwCx5BP,yB;O;KAPJ,C;+FAUA,uBAAA,E;MAAA,sC;MxCw5BA,0D;MAAA,+C;MqBj1CA,+B;MmBybA,yBA  
O+B,uBAAA,E;QnBhc/B,+B;wBmBgc+B,C,iBAAA,E;UAAA,iB,EAAA,E;YAAE,yBnBtbS,emBsbC,EnBtbD,Cm  
BsbT,C;W;S;OAAF,C;MAP/B,iB,oBAAA,E;QAOMB,4BAAR,O;QAAQ,sB;8BxC25BnB;A,UANKB,Q;UAAA,O  
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C;+FAUA,uBAAA,E;MAAA,sC;MxC02BA,0D;MAAA,+C;ME12CA,+B;MsCggBA,yBAO+B,uBAAA,E;QtCvgB  
/B,+B;wBsCugB+B,C,iBAAA,E;UAAA,iB,EAAA,E;YAAE,yBtC7fS,esC6fC,EtC7fD,CsC6fT,C;W;S;OAAF,C;M  
AP/B,iB,oBAAA,E;QAOMB,4BAAR,O;QAAQ,sB;8BxC62BnB;A,UANKB,Q;UAAA,OAAQ,SAAR,wBAAQ,CA  
AR,W;UAAAd,OAAc,cAAAd,C;YAAc,uB;YACV,IwCx2ByB,UtC7fS,eFq2CpB,YAAK,KAAL,CEr2CoB,CsC6fT,Cx  
Cw2BzB,C;cACI,qBAAO,K;cAAP,uB;;;UAGR,qBAAO,E;;;QwC52BP,yB;O;KAPJ,C;+FAUA,uBAAA,E;MAAA,  
sC;MxC42BA,0D;MAAA,+C;Mlz2CA,iC;MoC6fA,yBAO+B,uBAAA,E;QpCpgB/B,iC;wBoCogB+B,C,iBAAA,E;  
UAAA,iB,EAAA,E;YAAE,yBpC1fY,gBoC0fF,EpC1fE,CoC0fZ,C;W;S;OAAF,C;MAP/B,iB,oBAAA,E;QAOMB,4  
BAAR,O;QAAQ,sB;8BxC+2BnB;A,UANKB,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAAd,OAAc,cAAAd,C;  
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K;cAAP,uB;;;UAGR,qBAAO,E;;;QwC92BP,yB;O;KAPJ,C;iFAUA,uBAAA,E;MAAA,4C;MrCteA,6B;MqCseA,iB  
,SAAA,E;QAWI,OrCvemC,cqCuepB,eAAR,OAAQ,CrCveoB,C;O;KqC4dvC,C;iFAcA,uBAAA,E;MAAA,4C;Mn  
BreA,+B;MmBqeA,iB,SAAA,E;QAWI,OnBtesC,emBsevB,eAAR,OAAQ,CnBteuB,C;O;KmB2d1C,C;iFAcA,uBA  
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CJ,0B;MAAV,OAAU,cAAV,C;QAAU,mB;QACN,kBAAl,eAAJ,EAAI,uBAAJ,WAAc,CAAd,C;QACA,UAAU,I;;  
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AA+B,CAA/B,U;QACI,IAAI,wBAAl,KAAJ,GAAC,OAAd,CAAJ,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;0DAGX  
,CAAA,E;MAA6D,iCAAa,CAAb,C;K;kEAC7D,C,KAAA,E;MAAuE,sDAAiB,KAAjB,C;K;6DAGvE,C,kBAAA,E  
;MAA4E,uCAAQ,IAAR,EAAc,SAAd,EAAyB,OAAzB,C;K;iEAE5E,C,kBAAA,E;MAII,eAAe,0BAAa,SAAb,C;M  
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A,E;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,2BAAJ,C;QAAuB,OAAO,K;MAE9B,OAAO,o  
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V,I;K;iEAGjB,C,cAAA,E;MACI,oCAAa,4BAAmB,KAAAnB,OAA0B,OAA1B,C;MAER,KAAAL,MAAK,aAAI,mB

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O,M;K;iEAGX,C,cAAA,E;MACI,oCAAA,2BAAkB,KAAIB,OAAyB,OAAzB,C;MAEb,OAAy,KAAL,MAAK,aA  
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,KAAIB,C;K;;mEAI5C,C,YAAA,E;MAAA,wE;MAAsC,2CAAK,KAAL,CAAW,GAAX,EAAGB,KAAhB,CAAs  
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A,E;MAAA,sD;MAAS,6B;K;gGACb,C,OAAA,E;MAAwC,MAAM,qCAA8B,8BAA9B,C;K;4FAC9C,CAAA,E;M  
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D;K;qHACH,CAAA,E;MAAkC,OAAc,KAAd,qBAAc,U;K;kHACHD,CAAA,E;MAAyB,OAAc,KAAd,qBAAc,OA  
Ad,CAAqB,G;K;oHAC9C,CAAA,E;MAAsC,KAAd,qBAAc,S;K;;+FAL9C,CAAA,E;MACI,oBAA4B,6BAAR,OA  
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O,mC;K;2DAKf,C,IAAA,E;MAEyB,Q;MADrB,qB;MACqB,OAAA,I/E6RmE,CAAR,OAAQ,W;M+E7RxF,OAAq  
B,cAArB,C;QAAqB,wB;QAAf,iB/E8MsD,G;Q+E9MjD,mB/E2NiD,K;Q+E1NxD,iBAAI,GAJ,EAAS,KAAT,C;;  
K;2EAQc,C,uBAAA,E;MAAA,sD;MAAS,oC;K;kGACf,C,OAAA,E;MAAwC,MAAM,qCAA8B,gCAA9B,C;K;8F  
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;+CAC5C,C,KAAA,E;MACyC,Q;MAAA,oCAAM,0BAAW,KAAX,CAAN,4D;K;+CACzC,C,cAAA,E;MAIW,IA  
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EtnDgD,iB;K;2FAInD,CAAA,E;MACI,IAAI,+BAAJ,C;QACI,0BAAW,qB;;MAEf,OAAO,sC;K;gDAGf,CAAA,E;  
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+C,UtJ+VtE,C;YACI,qBAAO,QAAS,Y;YAAhB,uB;;;QAGR,qBAAO,E;;MsJnWqD,yB;K;mDAE5D,CAAA,E;M  
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D,OAAO,uBAAmB,SAAnB,EAAyB,gBAAzB,EAAiC,QAajC,C;K;oBAGX,C,SAAA,E;MAYiB,Q;MAFb,YAAY,  
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zB,MAAM,gCAAYB,OAAQ,WAAjC,C;;MLk/BN,aAAa,sBAAS,IAAT,C;MACb,IAAW,WAAP,MAAO,CAAX,C;  
QAAyB,OAAO,MAAO,W;MACvC,OAAO,sBAAsB,MAAtB,EAAuC,eAAT,QAAS,EAAa,EAAb,CAAvc,IAAgE  
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AAZ,C;O;KAX5C,C;4EAYA,uBAAA,E;MAAA,iC;MAAA,iB,SAAA,E;QAU6C,uBAAO,SAAP,C;O;KAV7C,C;4  
EAWA,uBAAA,E;MAAA,4B;MAAA,iC;MAAA,iB,SAAA,E;QAW2C,uBAAY,QAAL,SAAK,CAAZ,C;O;KAX3  
C,C;4EAYA,uBAAA,E;MAAA,4B;MAAA,iC;MAAA,iB,SAAA,E;QAW4C,uBAAY,QAAL,SAAK,SAAZ,C;O;K  
AX5C,C;wBmCzXA,C,OAAA,E;MACqB,sB;K;iDAKjB,C,KAAA,E;MAM8C,OnCgWL,WmChWK,aAAQ,KAA  
R,CnCgWL,C;K;iDmC9VzC,C,YAAA,E;MAOI,aAAQ,KAAR,IAAiB,KAAjB,CnCSPiC,I;K;4FmClPP,CAAA,E;M  
AAQ,oBAAQ,M;K;8CAE9C,CAAA,E;MAC+E,qCAAS,OAAT,C;K;iCAEzD,C,KAAA,E;MAAC,oB;MACnB,eA  
AoB,C;K;sDACpB,CAAA,E;MAAyB,2BAAQ,OAAR,CAAc,M;K;mDACvC,CAAA,E;MAAoD,Q;MAA9B,IAAI,  
oBAAQ,OAAR,CAAc,MAAIB,C;QAAA,OnC2Ue,WmC3US,aAAM,mBAAN,EAAM,2BAAN,OnC2UT,C;;QmC  
3UwC,MAAM,2BAA6B,KAAN,OAAM,WAA7B,C;K;;oDAGvF,C,OAAA,E;MAIS,Q;MAAL,IAAI,eAAC,0EAA  
D,SAAJ,C;QAAkC,OAAO,K;MAEzC,OAAe,gBAAR,OAAQ,EAAS,OAAT,CnCioKb,ImCjOIB,C;K;yDAGnB,C,  
QAAA,E;MACY,Q;MAA2B,gBAA3B,gE;MAA2B,c;oBjBmoD3C,A,QAFoB,U;QADhB,IAAI,wCAAsB,mBAA1  
B,C;UAAqC,aAAO,I;UAAP,e;;QACrB,6B;QAaHb,OAAGb,gBAAhB,C;UAAgB,2B;UiBjoD6B,2BjBioDR,OiBjo  
DQ,S;UAAA,W;YAAwB,yBAAR,OAAQ,EjBioDhC,OiBjoDgC,CnC6NhC,ImC7NgC,C;;UjBioD/C,IAAI,OAAJ,C  
;YAAyB,aAAO,K;YAAP,e;;;QAC/C,aAAO,I;;MiBloDH,iB;K;6CAGJ,CAAA,E;MAAkC,YAAK,OAAAL,CAAa,M  
AAb,KAAqB,C;K;;6BA9CvD,C,WAAA,E;MAAA,qD;MACgC,wBAAK,eAAW,IAAX,CAAL,C;MADhC,Y;K;;;

8CAPJ,CAAA,E;MAAA,OAKqB,sDALrB,M;K;8CAAA,CAAA,E;MAAA,c;MAKqB,wD;MALrB,a;K;4CAAA,C, KAAA,E;MAAA,2IAKqB,0CALrB,G;K;kFAwDA,uBAAA,E;MAAA,2C;iCAWwC,C,YAAA,E;QAAA,iB,KAAA ,E;UAAW,oBAAK,KAAL,EnC4MV,I;S;O;MmCvNzC,iB,UAAA,E;QAWI,OAAO,qBAAy.gCAAW,IAAX,GAAi B,wBAAjB,CAAZ,C;O;KAXX,C;6FAcA,C,QAAA,E;MAGwE,e;K;uB2M3ExE,C,gBAAA,E;MAQ2D,OAAa,WA Ab,ShPkRtB,CAAK,IAAL,GAAiB,GgPIRkB,EAAS,KAAT,C;K;uBAExE,C,gBAAA,E;MAQ4D,OAAa,WAAb,S9 OyQvB,CAAK,IAAL,GAAiB,K8OzQmB,EAAS,KAAT,C;K;uBAGzE,C,gBAAA,E;MAQ0D,OAAc,W/O2R5B,oB +O3Rc,S/O2Rd,CAAL,IAAK,CAAL,iB+O3RiC,EAAS,KAAT,C;K;uBAExE,C,gBAAA,E;MAOgD,uBAAc,SAAd ,C7NmRT,I6NnRS,EAA6B,WAAW,KAAX,CAA7B,C;K;sBAGhD,C,SAAA,E;MAMqC,Q;MAAA,0DAAmB,kB AAKB,SAAlB,C;K;sBAExD,C,gBAAA,E;MAO+C,Q;MAAA,0CAAc,KAAAd,oBAAwB,kBAAKB,SAAlB,C;K;uB AGvE,C,SAAA,E;MAMuC,Q;MAAA,2DAAoB,kBAAKB,SAAlB,C;K;uBAE3D,C,gBAAA,E;MAOiD,Q;MAAA, 2CAAE,KAAf,oBAAyB,kBAAKB,SAAlB,C;K;qBAE1E,C,SAAA,E;MAMmC,Q;MAAA,yDAAkB,kBAAKB,SAAl B,C;K;qBAErD,C,gBAAA,E;MAO6C,Q;MAAA,yCAAa,KAAb,oBAAuB,kBAAKB,SAAlB,C;K;sBAEpE,C,SAA A,E;MAMqC,Q;MAAA,0DAAmB,kBAAKB,SAAlB,C;K;sBAExD,C,gBAAA,E;MAO+C,Q;MAAA,0CAAc,KAA d,oBAAwB,kBAAKB,SAAlB,C;K;0BAMvE,C,SAAA,E;MAM4C,kCAAsB,EAAtB,C;K;4BAE5C,C,gBAAA,E;M AS0C,IAAvB,I;MAAA,sBAAL,SAAK,EAAa,KAAb,C;MAAL,iB;QAA4B,OAAO,I;MAA7C,UAAU,I;MACV,I/ O/EkE,Y+O+E9D,G/O/E8D,CAAiB,IAAjB,GDUQ/B,SgPxLzB,6BhPwL8B,CgPxLxB,ShPwLwB,CAAK,IAAL,G AAiB,GAAtB,CCvQ+B,EAA6B,IAA7B,C+O+E9D,IAAJ,C;QAA2B,OAAO,I;MACiC,OhPwPqC,UAAW,OgPxPz C,GhPwPyC,CC1DX,ID0DW,CAAX,C;K;2BgPrPzC,C,SAAA,E;MAM8C,mCAAuB,EAAvB,C;K;6BAE9C,C,gB AAA,E;MAS0C,IAAvB,I;MAAA,sBAAL,SAAK,EAAa,KAAb,C;MAAL,iB;QAA4B,OAAO,I;MAA7C,UAAU,I; MACV,I/OrGkE,Y+OqG9D,G/OrG8D,CAAiB,IAAjB,GCwQ/B,S8OnKzB,8B9OmK8B,C8OnKvB,S9OmKuB,CA AK,IAAL,GAAiB,KAAtB,CDxQ+B,EAA6B,IAA7B,C+OqG9D,IAAJ,C;QAA4B,OAAO,I;MACnC,O9OmOuC,W AAY,Q8OnO5C,G9OmO4C,CDjDZ,ICiDY,CAAZ,C;K;yB8OhO3C,C,SAAA,E;MAM0C,iCAAqB,EAArB,C;K;2 BAE1C,C,gBAAA,E;MASI,WAAW,KAAX,C;MAEA,aAAa,SAAb,CAAKB,M;MACiB,IAAI,WAAU,CAAd,C;Q AAiB,OAAO,I;MAExB,YAAkB,4BAAIB,CAAU,B,S;MACvB,S;MAEA,gBAAGB,qBAAK,CAAL,C;MACHB,IAA I,YAAY,EAAhB,C;QACI,IAAI,WAAU,CAAV,IAAe,cAAa,EAAhC,C;UAAqC,OAAO,I;QAC5C,QAAQ,C;;QAE R,QAAQ,C;;MAGz,uBAAuB,mB;MAEvB,qBAAqB,gB;MACrB,a/OiNmC,S+OjNtB,K/OiNsB,C;M+OhNnC,aAA a,W;MACb,aAAU,KAAV,MAAsB,MAAtB,M;QACI,YAAY,QAAQ,qBAAK,CAAL,CAAR,EAAlB,KAAjB,C;Q AEZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,I/OnJ8D,Y+OmJ1D,M/OnJ0D,CAAiB,IAAjB,E+OmJjD,c/On JiD,CAA6B,IAA7B,C+OmJ1D,IAAJ,C;UACI,IAAI,+CAAKB,gBAAIB,QAAJ,C;YACI,iB/O5FwC,W+O4FvB,K/O 5FuB,E+O4Ff,M/O5Fe,C;Y+O8FxC,I/OvJsD,Y+OuJID,M/OvJkD,CAAiB,IAAjB,E+OuJzC,c/OvJyC,CAA6B,IAA 7B,C+OuJID,IAAJ,C;cACI,OAAO,I;;YAGX,OAAO,I;;QAIf,S/OnHkD,SAAe,Y+OmHjE,M/OnHiE,CAAL,IAAK ,E+OmHvD,M/OnHuD,CAAY,IAAZ,CAAF,C;Q+OqHID,mBAAmB,M;QACnB,S/OhJiD,S+OgJjD,M/OhJgE,CAA L,IAAK,IA4UjC,S+O5LrB,K/O4LqB,CA5UiC,EAAW,IAAX,IAAf,C;Q+OiJjD,I/OnK8D,Y+OmK1D,M/OnK0D, CAAiB,IAAjB,E+OmKjD,Y/OnKiD,CAA6B,IAA7B,C+OmK1D,IAAJ,C;UAA2B,OAAO,I;;MAGtC,OAAO,M;K; 0BAGX,C,SAAA,E;MAM4C,kCAAsB,EAAtB,C;K;4BAE5C,C,gBAAA,E;MASI,WAAW,KAAX,C;MAEA,aAAa ,SAAb,CAAKB,M;MACiB,IAAI,WAAU,CAAd,C;QAAiB,OAAO,I;MAExB,YAAmB,6BAAAnB,CAAyB,S;MACz B,S;MAEA,gBAAGB,qBAAK,CAAL,C;MACHB,IAAI,YAAY,EAAhB,C;QACI,IAAI,WAAU,CAAV,IAAe,cAAa, EAAhC,C;UAAqC,OAAO,I;QAC5C,QAAQ,C;;QAEZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I; QACtB,I7N5M+D,a6N4M3D,M7N5M2D,CAAKB,IAAIB,E6N4MID,c7N5MkD,CAA8B,IAA9B,C6N4M3D,IAAJ, C;UACI,IAAI,+CAAKB,gBAAIB,QAAJ,C;YACI,iB7N1J0C,Y6N0JzB,K7N1JyB,E6N0JjB,M7N1JiB,C;Y6N4J1C, I7NhNuD,a6NgNnD,M7NhNmD,CAAKB,IAAIB,E6NgN1C,c7NhN0C,CAA8B,IAA9B,C6NgNnD,IAAJ,C;cACI,O AAO,I;;YAGX,OAAO,I;;QAIf,S7NjLoD,U6NiLpD,M7NjLoE,CAAL,IAAK,U6NiL1D,M7NjL0D,CAAY,IAAZ, CAAhB,C;Q6NmLpD,mBAAmB,M;QACnB,S7N9MmD,U6N8MnD,M7N9MmE,CAAL,IAAK,MIBgRIC,UAAW, qBAyDb,S+O3HrB,K/O2HqB,CAzDa,EAAL,IAAK,CAAL,iBAAN,CkBhRkC,EAAW,IAAX,CAAhB,C;Q6N+Mn D,I7N5N+D,a6N4N3D,M7N5N2D,CAAKB,IAAIB,E6N4NID,Y7N5NkD,CAA8B,IAA9B,C6N4N3D,IAAJ,C;UAA 2B,OAAO,I;;MAGtC,OAAO,M;K;wBtO9RX,C,MAAA,E;MACkD,OAAuB,0BAAtB,KAAO,WAAe,EAAU,KAA





```
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```

Found in path(s):

```
* /opt/cola/permits/1815024093_1696602312.9668024/0/kotlin-1-9-10-2-tgz/package/kotlin.js
```

## 1.1085 spew 1.1.1

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## 1.1086 gojsonreference 0.0.0-

## 20180127040603-bd5ef7bd5415

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## 1.1087 mergo 0.3.13

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```
import: ../../../../fossene/db/schema/thing.yml
```

```
fields:
```

```
  site: string
```

```
  author: root
```

## 1.1088 gofuzz 1.2.0

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# 1.1089 grpc-gateway 1.16.0

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# 1.1090 logrus 1.9.0

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# 1.1091 urfave-cli 1.22.4

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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd

- javaee\_web\_services\_1\_3.xsd
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- web-common\_3\_0.xsd
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- javaee\_7.xsd
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- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
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- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
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may be obtained from:

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For the following XML

Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

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The original XML Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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may be obtained from:

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\* org.eclipse.jetty.orbit:javafx.security.auth.message

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\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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#### Oracle OpenJDK

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- \* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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#### Apache

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- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

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- org.mortbay.jasper:apache-jsp



org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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- \* org.eclipse.jetty.orbit:javac.security.auth.message

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- \* org.eclipse.jetty.orbit:javac.mail.glassfish

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#### Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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#### OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

## 1.1112 go-restful 3.9.0

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# 1.1114 openjdk-jre 1.8.0u382

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# 1.1115 jdk-zulu 8.72.0.17-1

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